



BALCRON OIL

A Division of
Equitable Resources Energy Company

P.O. Box 21017
1601 Lewis Avenue Building
Billings, Montana 59104
(406) 259-7860

RECEIVED

SEP 17 1992

DIVISION OF
OIL GAS & MINING

September 16, 1992

-- VIA FEDERAL EXPRESS --

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

RE: Applications for Permit to Drill

Enclosed are copies of the Federal Applications for Permit to Drill the seven wells on the attached list. Also attached is a copy of the water permit and one copy of the Archeology Survey which are referenced in the APDs.

Every effort to comply with statewide spacing was made when staking these seven wells. However, in many instances both topographical reasons and requests by the Bureau of Land Management necessitated moving some of the sites from the location which was originally intended. If there is anything else we need to do in order to ensure that these locations are acceptable according to State regulations, please let me know.

Approximate starting dates have been put on the APDs. However, the order of drilling may change depending on when the permits are approved.

As operator we hereby request that the information on these wells be held tight for the maximum period allowed by State regulations.

If you have any questions or need further information, please let me know.

Sincerely,

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs
Enclosures/Attachments

MONUMENT BUTTE DRILLING PROGRAM

=====

Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah
1980' FSL, 660' FWL
FLS #U-020252
PTD 5,620'
GL 5,224'

Balcron Monument Federal #24-5
SE SW Section 5, T9S, R17E
Duchesne County, Utah
765' FSL, 2243' FWL
FLS #U-020252
PTD 5,600'
GL 5,223'

Balcron Monument Federal #23-11
NE SW Section 11, T9S, R16E
Duchesne County, Utah
1787 FSL, 2147' FWL
FLS #U-096550
PTD 5,750'
GL 5,622'

Balcron Monument Federal #14-11
SW SW Section 11, T9S, R16E
Duchesne County, Utah
1048' FSL, 446' FWL
FLS #U-096547
PTD 5,720'
GL 5,661'

Balcron Monument Federal #41-15
NE NE Section 15, T9S, R16E
Duchesne County, Utah
460' FNL, 500' FEL
FLS #U-017985
PTD 5,700'
GL 5,714'

Balcron Monument Federal #32-15
SW NE Section 15, T9S, R16E
Duchesne County, Utah
1868' FNL, 1993' FEL
FLS #U-017985
PTD 5,610'
GL 5,681'

Balcron Monument Federal #23-15
NE SW Section 15, T9S, R16E
Duchesne County, Utah
1724' FSL, 2078' FWL
FLS #U-017985
PTD 5,700'
GL 5,828'

JUL - 8-92 WED 10:51

APPLICATION FOR PERMANENT CHANGE OF WATER

SEP 17 1992

STATE OF UTAH

APR 17 1987

DIVISION OF

OIL, GAS & MINING

For the purpose of obtaining permission to make a permanent change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

Rec. by

Fee Paid \$

Receipt #

Microfilmed

Roll #

*WATER USER CLAIM NO. 43-9974 *APPLICATION NO. a-14289

Changes are proposed in (check those applicable)

☐ point of diversion.

☐ point of return.

☒ place of use.

☒ nature of use.

1. OWNER INFORMATION

Name: Owen Dale Anderson

*Interest: %

Address: P.O. Box 1162 Vernal UT 84078

2. *PRIORITY OF CHANGE: *FILING DATE:

*Is this change amendatory? (Yes/No):

3. RIGHT EVIDENCED BY: 43-3525

Prior Approved Change Applications for this right: 83-43-21 84-43-73 614099

***** HERETOFORE *****

4. QUANTITY OF WATER: 0.5 cfs and/or ac-ft.

5. SOURCE: U.G.W. (well)

6. COUNTY: Duchesne

7. POINT(S) OF DIVERSION: South 1167 ft East 340 ft from N 1/4 Corner
Section 27 T1S, R2W, USB + M

Description of Diverting Works:

8. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:

Description of Diverting Works:

9. POINT(S) OF RETURN

The amount of water consumed is cfs or ac-ft.

The amount of water returned is cfs or ac-ft.

The water will be returned to the natural stream/source at a point(s):

*These items are to be completed by Division of Water Rights.

10. NATURE AND PERIOD OF USE

Stockwatering: From Jan 1 to Dec 31
 Domestic: From _____ to _____
 Municipal: From _____ to _____
 Mining: From _____ to _____
 Power: From _____ to _____
 Other: From Jan 1 to Dec 31
 Irrigation: From April 1 to Oct 31

11. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): 250 Livestock Units
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____ Mining District in the _____ Mine.
 Mining: _____
 Ores mined: _____ Type: _____ Capacity: _____
 Power: Plant name: _____
 Other (describe): drilling & completion of oil field location Fish Culture
 Irrigation: 55.7 acres. Sole supply of _____ acres

12. PLACE OF USE

Legal description of areas of use other than irrigation by 40 acre tract: n/a

13. STORAGE

Reservoir Name: Unnamed Storage Period: from 11-1 to 3-31
 Capacity: 4.0 ac-ft. Inundated Area: _____ acres
 Height of dam: _____ feet
 Legal description of inundated area by 40 tract: NW NE Sec 27, T15 R2W 25B & M

***** THE FOLLOWING CHANGES ARE PROPOSED *****

14. QUANTITY OF WATER: _____ cfs and/or 20.0 ac-ft
 15. SOURCE: UGW Remaining Water: same
 16. COUNTY: Duchesne
 17. POINT(S) OF DIVERSION: same

Description of Diverting Works: _____

18. POINT(S) OF REDIVERSION

The water will be reddiverted from _____ at a point: _____

Description of Diverting Works: _____

JUL - 8 - 92 WED 10:52

19. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or _____ ac-ft

The amount of water returned is _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

20. NATURE AND PERIOD OF USE

Stockwatering: From _____ to _____

Domestic: From _____ to _____

Municipal: From _____ to _____

Mining: From _____ to _____

Power: From _____ to _____

Other: From Jan 1 to Dec 31

Irrigation: From _____ to _____

21. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons

Municipal (name): _____ Mining District in the _____ Mine

Mining: _____

Ores mined: _____ Type: _____ Capacity: _____

Power Plant name: _____

Other (describe): drilling and completion of oil wells

Irrigation: _____ acres. Sole supply of _____

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: _____

Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 tract: _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): _____

Change is for oilfield drilling and exploration.Approximately 4 acre ft/acre will be taken fromirrigation purposes and used for oilfield purposesAcres to be irrigated will change from 55.7 to 50 acres
55.7 11 x 7

undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation
of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all
responsibility for the accuracy of the information contained herein, at the time of filing, rests with the
applicant(s).

Quinn Dale Anderson
Signature of Applicant(s)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY

CONFIDENTIAL

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FSL, 660' FWL NW SW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 16 miles from Myton, UT. See EXHIBIT "B"

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

40 acres

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5,620'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5,224'

22. APPROX. DATE WORK WILL START*

October 15, 1992

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	260'	250 sx G w/3% CaCl
See attached Drilling Program for production casing.				

EXHIBITS

- "A" Proposed Drilling Program
- "B" Proposed Surface Use Program
- "C" Geologic Prognosis
- "D" Drilling Program/Casing Diagram
- "E" Evidence of Bond Coverage
- "F" Archeology Report

- "G" Rig Layout
- "H" BOPE Schematic
- "I" Location Site and Elevation Plat
- "J" Existing Roads/Planned Access (Maps A & B)
- "K" Existing Wells (Map C)
- "L" Drillsite Layout/Cut and Fill Diagrams

SEP 17 1992

NOTE: In accordance with request by the Vernal BLM representative, only one copy of EXHIBIT "F" Archeology Report is included with this permit.

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Bobbie Schuman

TITLE

Coordinator of Environmental
and Regulatory Affairs

DATE

9-15-92

(This space for Federal or State office use)

PERMIT NO.

43-013-31370

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE: 9/21-92

BY: *[Signature]*

WELL SPACING: 649-32

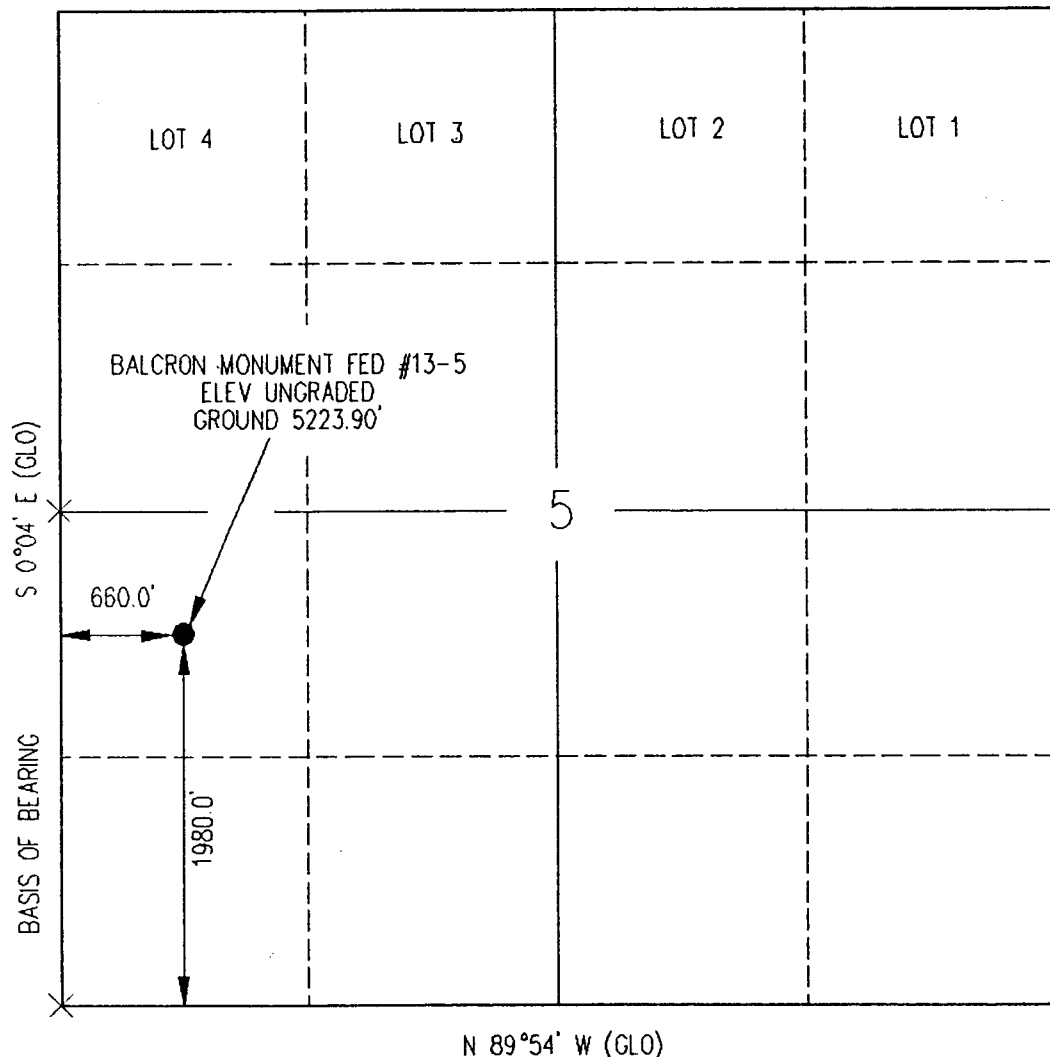
*See Instructions On Reverse Side

T9S, R16E, S.L.B. & M.

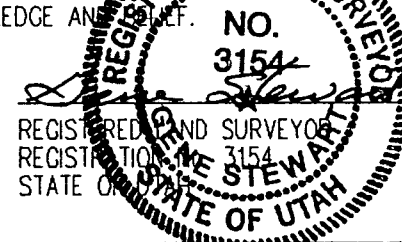
S 89°57' E (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FED #13-5,
LOCATED AS SHOWN IN THE NW 1/4 SW 1/4
OF SECTION 5, T9S, R16E, S.L.B. & M,
DUCESNE COUNTY UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES AND ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O. PLAT 1911
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SOUTHEAST)

TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS KH
DATE: 7/27/92	WEATHER: CLEAR & HOT
NOTES:	FILE # #M-13-5

EQUITABLE RESOURCES ENERGY COMPANY
Balcron Oil Division
Balcron Monument Federal #13-5
NW SW Section 5-T9S-R17E
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.
- b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.
- c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.
- d. An upper kelly cock will be used during the drilling of this well.
- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Duchesne River formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

Drilling Program/Casing Design (EXHIBIT "D")
Geologic Prognosis (EXHIBIT "C")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

- a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.
- c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. The drilling operations for this well will begin as soon as the BLM approves this APD.
- b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.
- c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.
- d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
BALCRON MONUMENT FEDERAL #13-5
NW SW Section 5, T9S, R17E
DUCHESNE COUNTY, UTAH

1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)

- A. The proposed well site is staked and four reference stakes are present. 200' & 250' NW and 175' & 225' SW
- B. The Monument Federal #13-5 is located approximately 12 miles Southwesterly of Myton Utah, in the NW1/4 SW1/4 Section 5, T9S, R17E, SLB&M, Duchesne County, Utah. To reach the 13-5, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 10 miles to an intersection with Monument Butte Gas Plant road. Proceed West along said Gas Plant road 0.9 mile to road intersection, turn left and continue 0.9 miles, turn right and proceed 0.6 miles to proposed access road sign. Follow flags 700' to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

2. Planned Access Roads: Refer to Map "B" (shown in GREEN)

Approximately 700 feet of new road construction will be required for access to the proposed well location.

- A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

- B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - 6%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - any construction materials which may be required for surfacing of the access road will be purchased from a local contractor having a permitted source of materials in the area, if required by the Authorized Officer, Bureau of Land Management. None anticipated at this time.
- H. Gates, cattleguards or fence cuts - none required.

I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

J. The proposed access road has been centerline flagged.

3. Location of Existing Wells Within a One-Mile Radius:

Please Refer to Map "C"

- A. Water wells - none known.
- B. Abandoned wells - see Map "C"
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - see Map "C".
- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:

A. Existing

- 1. Tank batteries - see Map #B.
- 2. Production facilities - see Map #B.
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - see Map #B.

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.
- 3. Production facilities will be accommodated on the

existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

- C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.
- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operation will accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

- F. Any proposed pipelines will be submitted to the authorized offices Via Sundry Notice for approval of subsequent operations.
- G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

5. Location and Type of Water Supply

A. Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from Bonanza Utah. (which is approximately 9 miles south of this proposed location)

B. No water well will be drilled on this location.

6. Source of Construction Materials

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

C. All surface disturbance area is on B.L.M. lands.

D. There are no trees on this location.

7. Methods of Handling Waste Materials:

A. Cuttings - the cuttings will be deposited in the reserve pit.

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be shortened 30' on the NW end to avoid an existing drainage and will be constructed so as

not to leak, break, or allow discharge. If at the time of construction it is determined to be necessary, the reserve pit will be lined with a plastic nylon reinforced liner.

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

- D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

8. Ancillary Facilities:

None anticipated.

9. Wellsite Layout:

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. Whereas the surface at this location is mostly rock, no topsoil will be stripped or stockpiled. Refer to Figure #1 for the location of the subsoil stockpiles. A compacted soil earthen berm 2 to 3 feet high will be placed on the NW end of location. Corner #4 will be rounded off approximately 30' to avoid a natural drainage.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three (3) trailers on location during drilling operation.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. The reserve pit will be constructed so as to be capable of holding 500-600 bbls. of fluid. This size of pit will be approximately equivalent to four times the T.D. hole volume. The flare pit will be located on the East side of location between corner #5 and corner #6. This pit might be used for testing, but only after the drilling is completed and the drilling equipment and personnel are off the well site location.

The reserve pit will not be lined unless requested by the B.L.M. or unless it is deemed necessary by Equitable Resources. If a plastic-nylon reinforced liner is used, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

- E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.
 - 1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 - 2. Standard steel, wood, or pipe posts shall be used

between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.

3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

- F. Any hydrocarbons on the pit will be removed from the it as soon as possible after drilling operations are completed.

10. Plans for Reclamation of the Surface:

The B.L.M. will be contacted prior to commencement of any reclamation operations.

A. Production

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. If a plastic or nylon reinforced pit liner is used, it shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year

round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

If the well is abandoned/dry hole Equitable Resources Energy Company will, restore the access road and location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, then roller packing following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the following seed mixture:

Pure Live Seed (PLS)	Seed Mix
lbs./acre	
1	Forage Kochia (Kochia prostrata)
5	Ephriam Crested Wheatgrass (Agropyron cristatum Ephriam)
4	Russian Wildrye (Elymus jounces)
2	Fourwing Saltbush (Atriplex canescens)

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:
 - (a) re-establishing irrigation systems where applicable,
 - (b) re-establishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and,
 - (c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.
2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeded operations will be performed in the fall or spring following completion of reclamation operations.
 - (a) A silt catchment basin of approximately 1/2 acre foot capacity will be constructed according to BLM specifications approximately 400' West of corner #3, where flagged.

11. Surface Ownership:

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management
Vernal District Office
Vernal, Utah

12. Other Information:

- A. Topographic and geologic features of the area (reference

Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River, which is the major drainage for this area, and approximately 11 miles South of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, raptors, morning doves, swallows, nighthawks,

hummingbirds, and chukar.

B. The surface ownership is Federal. The surface use is grazing and petroleum production.

C. 1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.

2. There are no occupied dwellings in the immediate area

3. An archaeological report will be forwarded upon completion.

4. There are no reported restrictions or reservations noted on the oil and gas lease.

13. Lessee's or Operator's Representative:

Balcron Oil,
a division of Equitable Resources Energy Company
1601 Lewis Avenue
P.O. Box 21017
Billings, Montana 59104
(8:00 a.m. to 5:00 p.m.)
(406)259-7860
FAX: (406)245-1361

Dave McCoskery, Drilling Engineer Home (406)248-3864

Mike Perius, Operations Supervisor Home (406)656-9719

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

September 15, 1992

Date

Bobbie Schuman

Bobbie Schuman
Coordinator of Enviromental and
Regulatory Affairs
BALCRON OIL division of Equitable
Resources Energy Company

"C"

BALCRON OIL COMPANY

Geologic Prognosis

EXPLORATORY
DEVELOPMENT X

WELL NAME: Balcron Monument Federal #13-5 PROSPECT/FIELD: Monument Butte
LOCATION: 1980 FSL, 660 FWL SECTION 5 TOWNSHIP 9S RANGE 17E
COUNTY: Duchesne STATE: UT GL (Ung): 5224 EST KB: 5234 TOTAL DEPTH 5620'

FORM. TOPS:

Formation KB	Prognosis			Sample Top			Prognosis			Sample Top		
	Depth	Datum		Depth	Datum		Depth	Datum		Depth	Datum	
Duchesne												
Green River	1500	+3734				+3744						
Horseshoe Bench	2225	+3009				+3019						
Douglas Creek	4617	+617				+627						
Pay #1	4700	+534				+544						
Pay #2	5097	+137				Not Present						
Pay #3	5129	+105				+115						
Wasatch Tongue	5499	-265				NDE						
T.D.	5620											

CONTROL WELL: Allen Federal #43-6 Qtr/Qtr NE/SE Section 6 Township 9S Range 17E

SAMPLES:

_____, samples, _____, to _____
_____, samples, _____, to _____
_____, samples, _____, to _____
_____, samples, _____, to _____
_____, samples, _____, to _____
_____, samples, _____, to _____

Send Samples To:

Utah Geological Survey Sample Library

LOGS:

DIL-SFL from surface to TD
LDI-CNL from surface to TD
_____, from _____, to _____
_____, from _____, to _____
_____, from _____, to _____
_____, from _____, to _____
_____, from _____, to _____
_____, from _____, to _____

CORES:

none

DRILL STEM TESTS:

none

HUG LOGGER/HOT WIRE:

Required: (Yes/No) Yes
Type: 2 Man Unit

WELLSITE GEOLOGIST:

From _____ to _____
Name: _____ Tele. No. (_____) _____
Address: _____

COMMENTS:

PREPARED BY: Keven Reinschmidt
Steve VanDelinder

DATE: 8-10-92

**BALCRON OIL
DRILLING PROGRAM**

WELL NAME: Balcron Monument PROSPECT/FIELD: Monument Butte
 Federal # 13-5
 LOCATION: NW SW Sec 5 Twn 9S Rge 17E
 COUNTY: Duchesne STATE: Utah

TOTAL DEPTH: 5620'

HOLE SIZE INTERVAL

12 1/4" Surf to 260'
 7 7/8" 260' to 5620'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface	0'	260'	8 5/8"	24 #/FT	J-55
Production	0'	5620'	5 1/2"	15.50#/Ft	J-55

All casing will be ST&C, 8RD, New

CEMENT PROGRAM

Surface 250 sacks class "G" with 3% CaCl.
 (Note: Volumes are 100% excess.)

Production 250 sacks Haliburton Hifill with 10 #/SK
 Gilsonite tailed with 180 sacks 50/50 Poz with
 0.3% CFR-3, 1/4 #/SK Flocele, 0.5% Halad-24, and
 10% salt.
 (Note: Actual volumes will be calculated from
 caliper log.)

**PRELIMINARY
DRILLING FLUID PROGRAM**

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Fresh Gel/Native Mud	Surf	260	8.5	NA	NA
Water/Fresh Gel	260'	5620'	8.7-8.9	10-12	12-14

COMMENTS

- 1.) No cores or DSTs are planned .

DMM
 9-9-92

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Monument Fed. 13-5
Project ID: 1	Location: Utah

Design Parameters:

Mud weight (8.80 ppg) : 0.457 psi/ft
 Shut in surface pressure : 2007 psi
 Internal gradient (burst) : 0.100 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Body Yield : 1.50 (B)
 Overpull : 0 lbs.

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost	
1	5,620	5-1/2"	15.50	J-55	ST&C	5,620	4.825		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2569	4040	1.573	2569	4810	1.87	87.11	202	2.32 J

Prepared by : McCoskery, Billings, MT
 Date : 09-15-1992
 Remarks :

Minimum segment length for the 5,620 foot well is 1,500 feet.
 The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and
 2,569 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guide-
 line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with
 evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body
 Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and
 Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
 Costs for this design are based on a 1990 pricing model. (Version 1.0G)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
MONTANA STATE OFFICE
222 NORTH 32ND STREET
P.O. BOX 36800
BILLINGS, MONTANA 59107-6800

EXHIBIT "E"
Page 1 of 4

TAXE
PRIDE IN
AMERICA

IN REPLY TO:

MTM 12619-A et al
BLM BOND NO. MT0576
(922.31)

April 25, 1989

NOTICE

Equitable Resources Energy Company
P. O. Box 21017
Billings, Montana 59104

OIL AND GAS

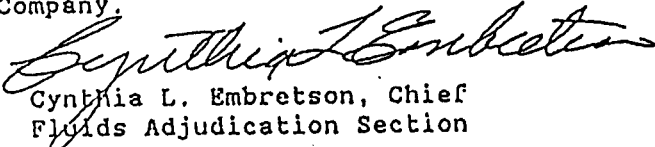
CORPORATE MERGER RECOGNIZED RIDER TO NATIONWIDE BOND ACCEPTED

Acceptable evidence has been filed in this office concerning the merger of Balcron Oil Company into Equitable Resources Energy Company, the surviving corporation. Information provided shows that Balcron Oil Company merged into Equitable Resources Energy Company, changing the former entity's name to Balcron Oil, a Division of Equitable Resources Energy Company. Please note that Divisions cannot hold leases, therefore, after consultation with Balcron Oil, this office is recognizing only the merger action.

A rider was filed on April 20, 1989, to be made a part of \$150,000 Nationwide Oil and Gas Bond No. 5547188 (BLM Bond No. MT0576) with Balcron Oil Company as principal and Safeco Insurance Company of America as surety. By means of this rider, the surety consents to changing the name on the bond from Balcron Oil Company to Equitable Resources Energy Company. The rider is accepted effective April 20, 1989.

For our purposes, the merger is recognized effective April 20, 1989.

The oil and gas lease files and communitization agreement files identified on the enclosed Exhibit A have been noted as to the merger. Other lease interests will be transferred by assignments from Ballard & Cronoble to Equitable Resources Energy Company.


Cynthia L. Embretson, Chief
Fluids Adjudication Section

1 Enclosure
1-Exhibit A

cc: (w/encl.)
AFS, Denver (1)
All DMs (1 ea.)
RMO Section (1)
Regional Forester, Lakewood (2)
Regional Forester, Missoula (2)
Bureau of Reclamation (1)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)

Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)

Other Oil and Gas Leasing Authorities as Applicable

KNOW ALL MEN BY THESE PRESENTS, That we
BALCRON OIL COMPANY
of 1601 Lewis Avenue, Billings, MT 59104

as principal, and
SAFECO INSURANCE COMPANY OF AMERICA
of 111 Presidential Blvd., Suite 231, Bala Cynwyd, PA 19004

as surety, are held and firmly bound unto the United States of America in the sum of ONE HUNDRED FIFTY THOUSAND AND 00/100-----dollars (\$ 150,000.00), in lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators, and successors, jointly and severally.

- ☐ The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.
- ☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.
- ☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Mineral Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

ALL STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond: (1) as lessee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement; and

WHEREAS the principal is authorized to drill for, mine, ex-

tract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include:



SAFECO

SURETY RIDER

EXHIBIT E Page 3 of 4

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
FIRST NATIONAL INSURANCE COMPANY
OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond
Bond No. 5547188 (BLM Bond No. MT0576)
dated effective 9/8/88
(MONTH, DAY, YEAR)
executed by BALCRON OIL COMPANY, as Principal,
(PRINCIPAL)
and by SAFECO INSURANCE COMPANY OF AMERICA, as Surety,
(SURETY)
In favor of UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND
(OBLIGEE) MANAGEMENT

In consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing

The name of the Principal
From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider is effective 1/1/89
(MONTH, DAY, YEAR)

Signed and Sealed 4/10/89
(MONTH, DAY, YEAR)
EQUITABLE RESOURCES ENERGY COMPANY
PRINCIPAL

By: _____ TITLE

SAFECO INSURANCE COMPANY OF AMERICA
SURETY

By: R. George Voinchet ATTORNEY-IN-FACT



SAFECO

POWER
OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

EXHIBIT "E"
3798 Page 4 of 4

No. _____

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA, each a Washington corporation, does each hereby appoint

-----THOMAS L. VEHAR; R. GEORGE VOINCHET, Pittsburgh, Pennsylvania-----

Its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA have each executed and attested these presents

this 4th day of September, 19 87.

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA
and of GENERAL INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA
and of GENERAL INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

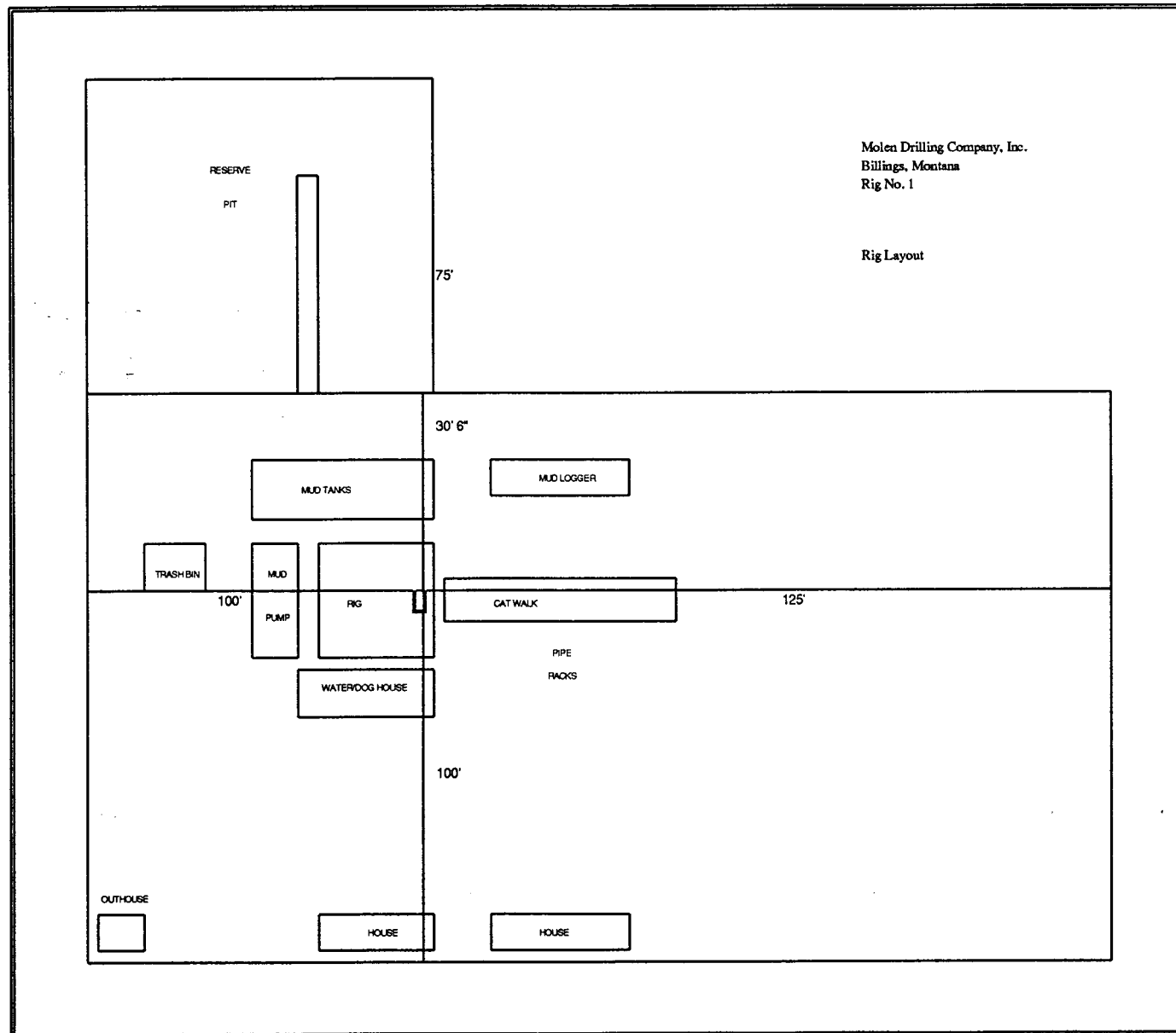
- (i) The provisions of Article V, Section 13 of the By-Laws, and
- (ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and
- (iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

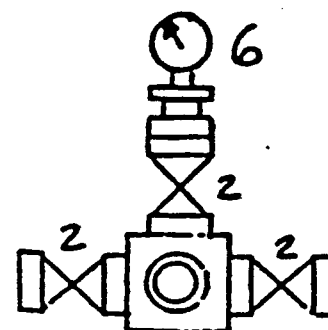
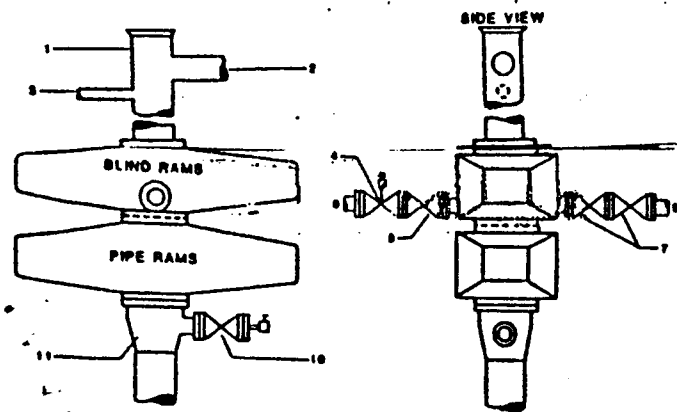
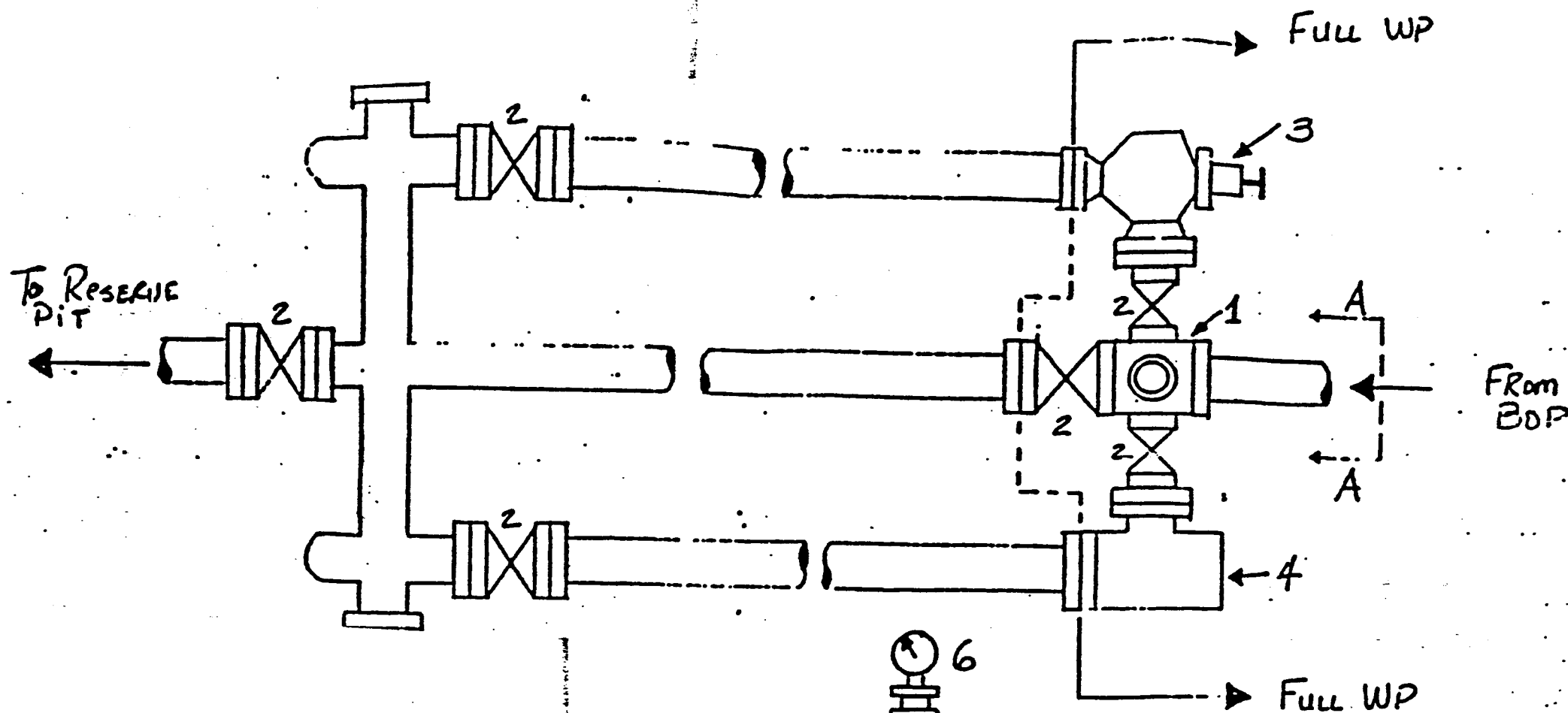
this 10th day of April, 19 89.



Molen Drilling Company, Inc.
 Billings, Montana
 Rig No. 1

Rig Layout

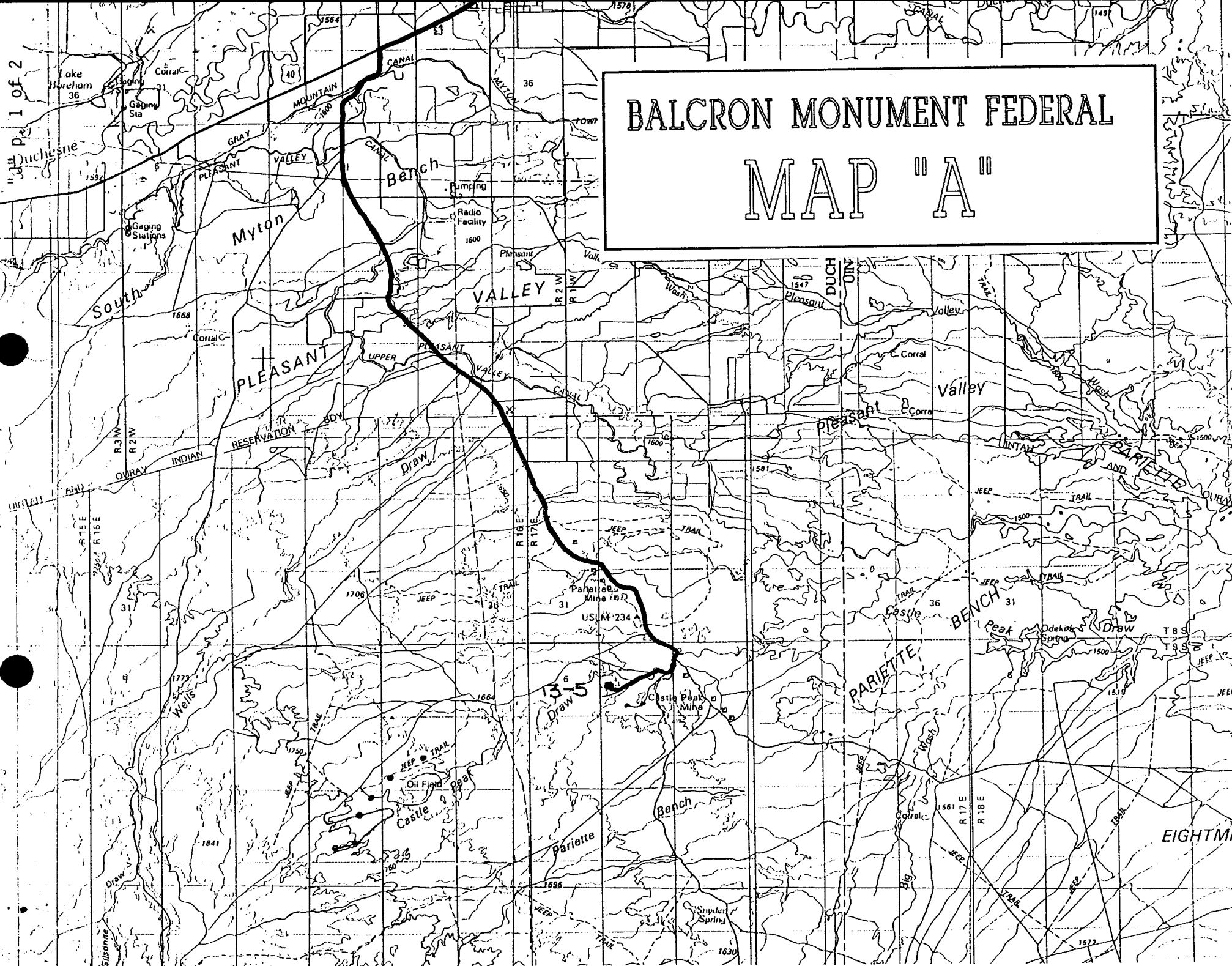
EXHIBIT "G"
 Rig Layout

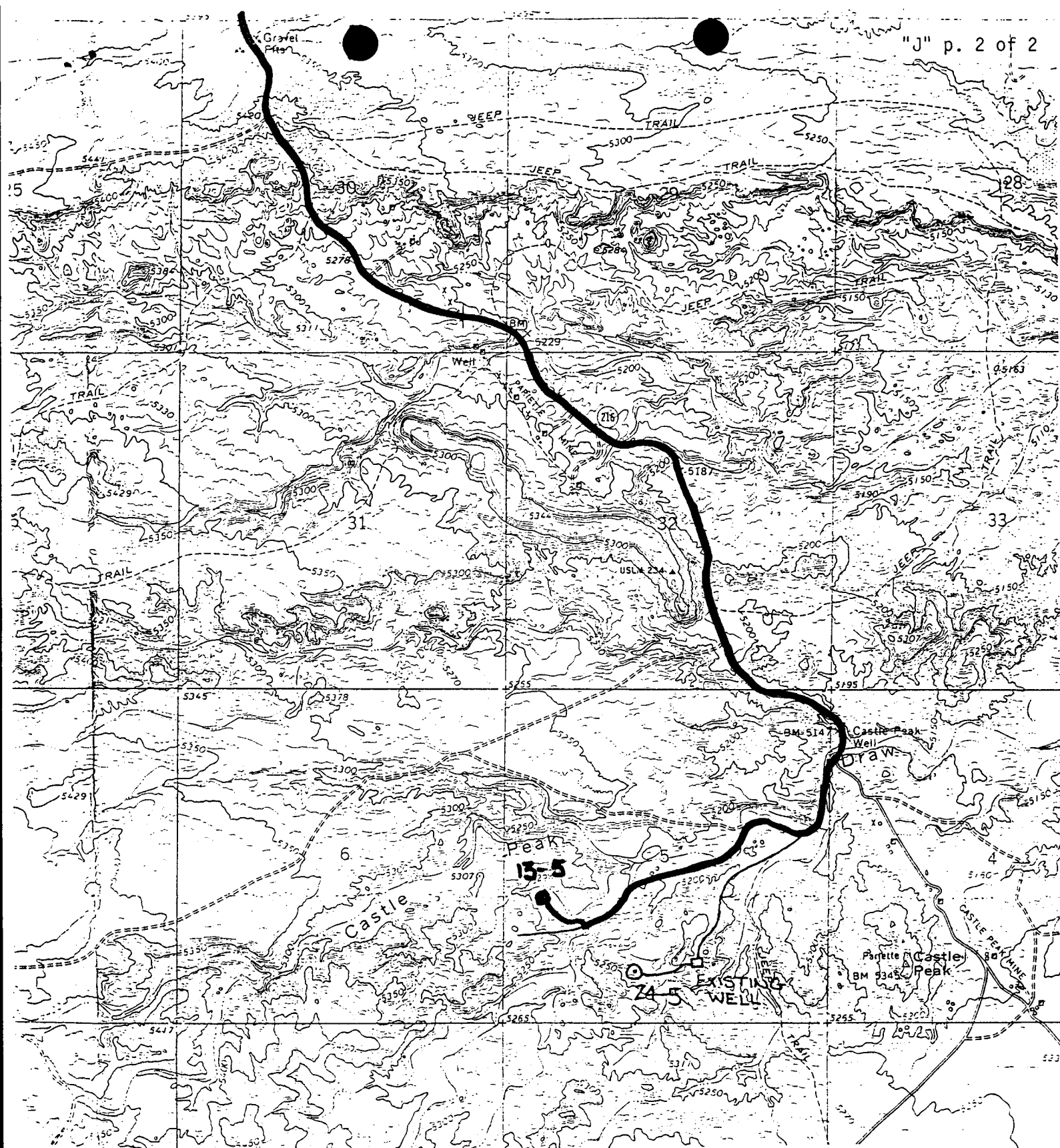


1. Cross
2. Gate Valve
3. Adjustable Choke
4. Positive Choke
5. Welded Bull Plug, Lead Filled
6. 2" - 3000-psi mud pressure gauge

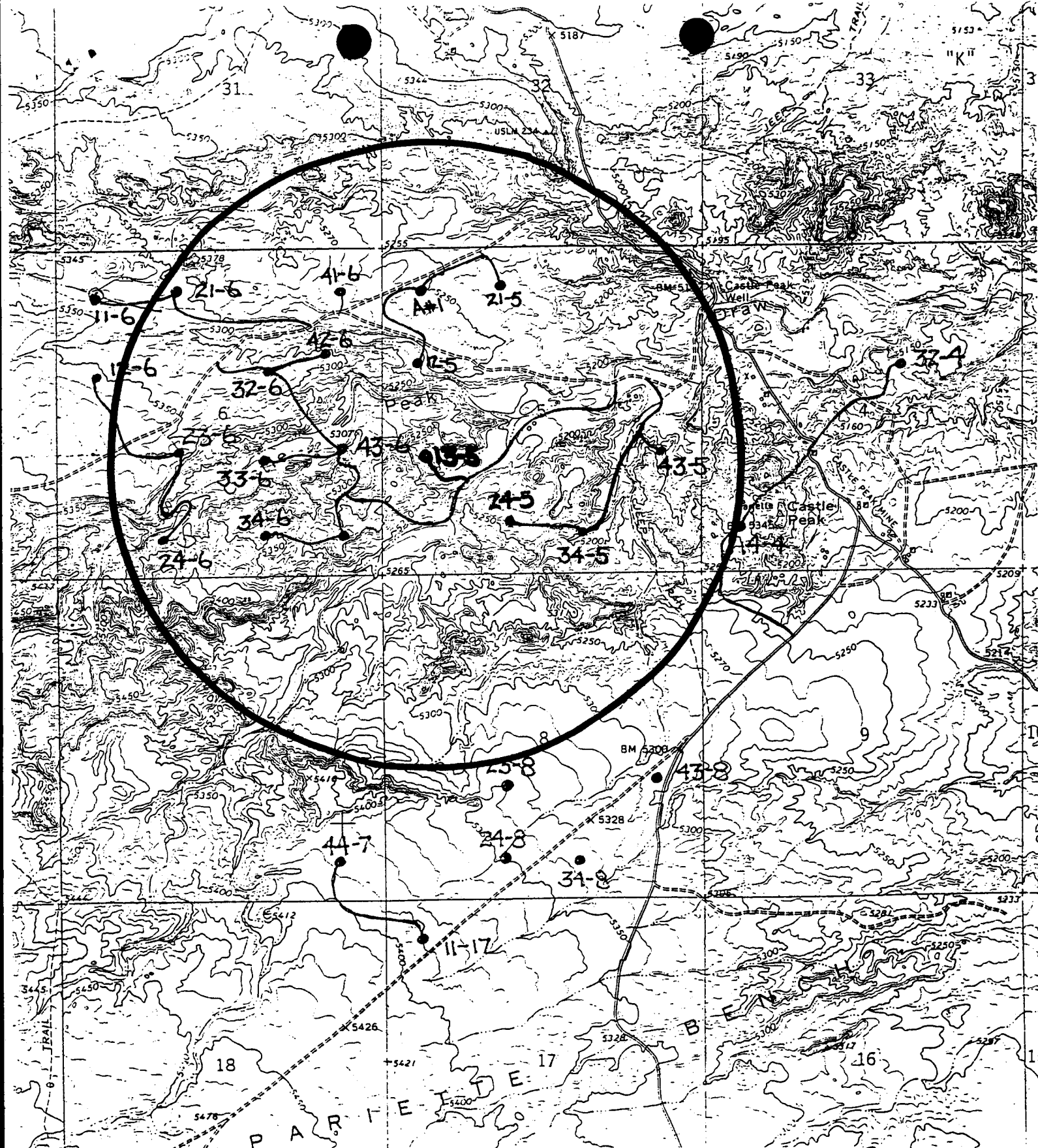
Note: All lines must be securely anchored.

BALCRON MONUMENT FEDERAL MAP "A"



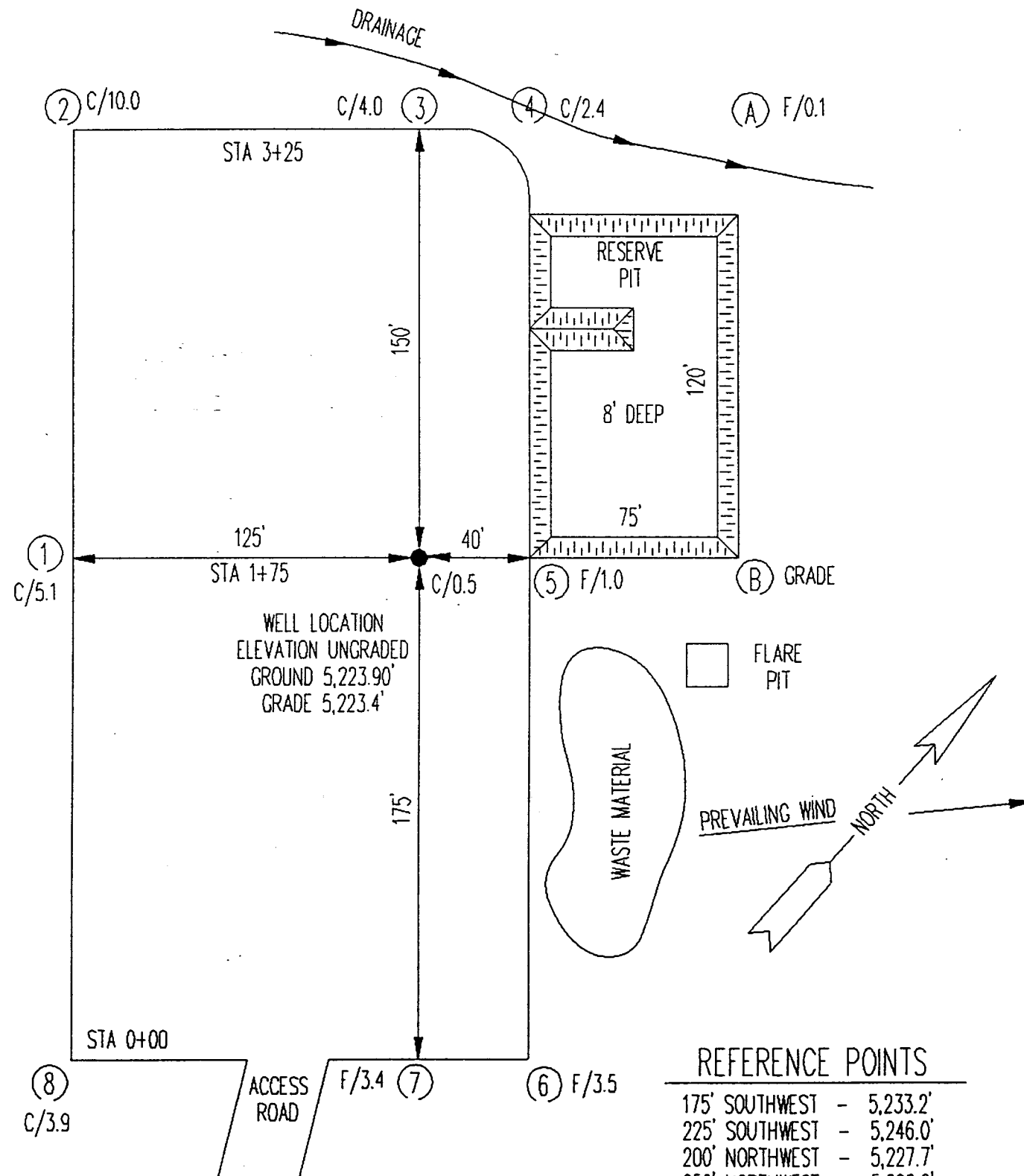


BALCRON MONUMENT FEDERAL
MAP "B"



BALCRON MONUMENT FEDERAL
MAP "C"

BALCRON MONUMENT FEDERAL WELL PLAT #13-5

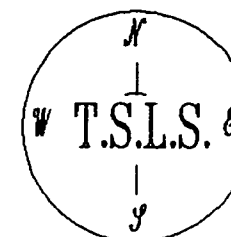


REFERENCE POINTS

175' SOUTHWEST	-	5,233.2'
225' SOUTHWEST	-	5,246.0'
200' NORTHWEST	-	5,227.7'
250' NORTHWEST	-	5,228.2'

APPROXIMATE YARDAGE

LOCATION	PIT
CUT = 5,466.9	CUT = 2,947.2
FILL = 825.0	FILL = 9.7

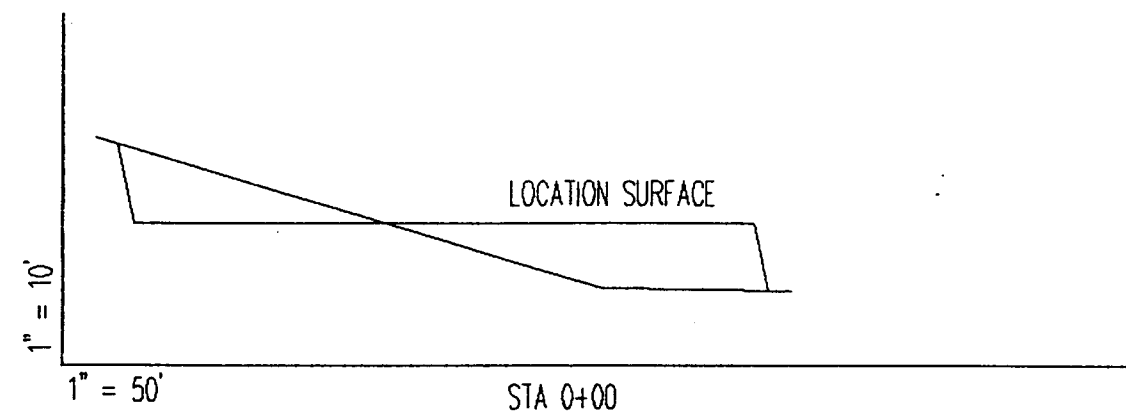
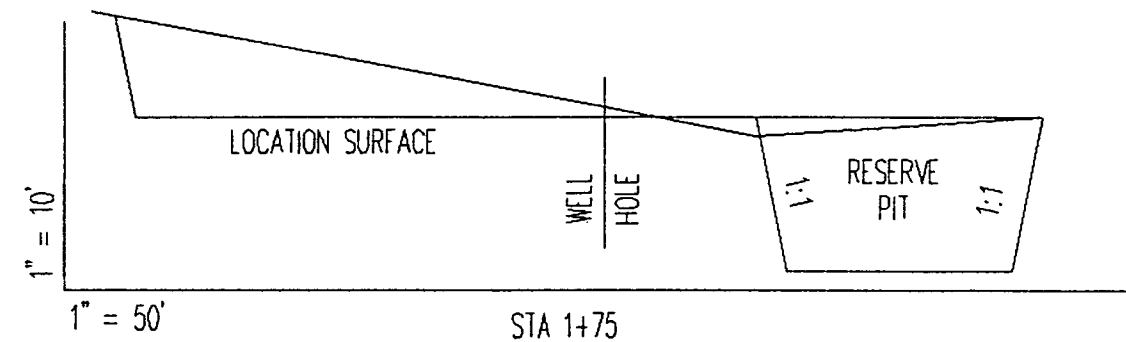
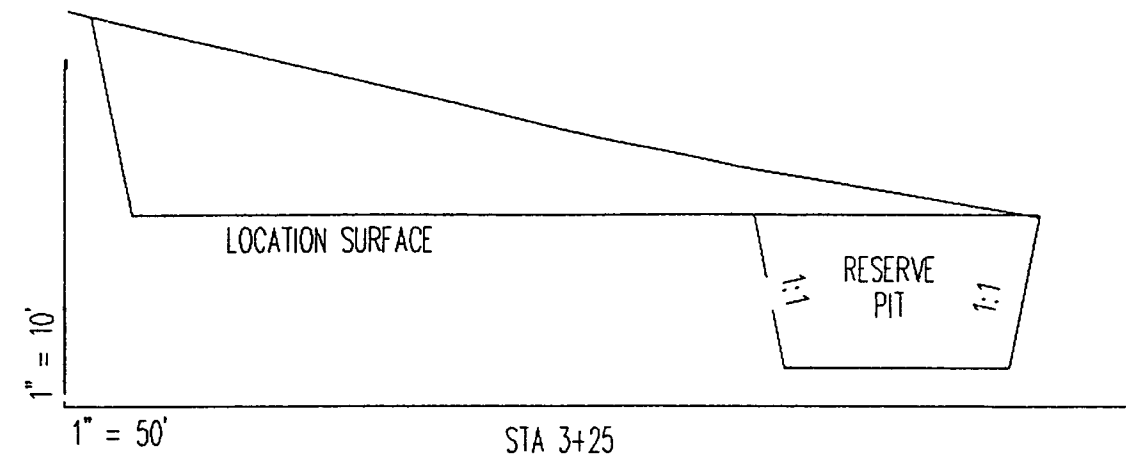


TRI-STATE LAND SURVEYING
P.O. BOX 533 VERNAL, UT. 84078
(801)781-2501

RECEIVED

SEP 17 1992

DIVISION OF
OIL GAS & MINING



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 09/17/92

OPERATOR: BALCRON OIL

OPERATOR ACCT NO: N-9890

WELL NAME: BALCRON MONUMENT FEDERAL 13-5

API NO. ASSIGNED: 43-013-31370

LEASE TYPE: FED

LEASE NO: 13-010150

LOCATION: NWSW 05 - T09S - R17E

DUCHESNE COUNTY

FIELD: MONUMENT BUTTE

FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond

(Number 1 federal)

☒ Potash (Y/N) ☒

☒ Oil shale (Y/N) ☒

☒ Water permit

(Number 43-9974 a-14089)

☒ RDCC Review (Y/N) ☒

(Date: _____)

LOCATION AND SITING:

____ R649-2-3. Unit: _____

☒ R649-3-2. General.

____ R649-3-3. Exception.

____ Drilling Unit.

Board Cause no: _____

Date: _____

COMMENTS:

file add wells within Sec 05.

CONFIDENTIAL

PERIOD

EXPIRED

ON 10-24-94

STIPULATIONS:



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 21, 1992

Balcron Oil
P.O. Box 21017
Billings, Montana 59104

Gentlemen:

Re: Balcron Monument Federal #13-5 Well, 1980 feet from the south line, 660 feet from the west line, NW 1/4 SW 1/4, Section 5, Township 9 South, Range 17 East, Duchesne County, Utah

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2
Balcron Oil
Balcron Monument Federal #13-5 Well
September 21, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31370.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WOI1

DAILY OPERATING REPORT

BALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

10-15-92 TD: 3,208' (611') Day 6
Formation: Green River
MW 8.4 VIS 27 pH 10.6
Present Operation: Drilling
Lost returns @ 3060'. Trip for holes in DP, 41 stds
down.
DC: \$9,184 CC: \$69,364

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

10-15-92 TD: 3,208' (611') Day 6
Formation: Green River
MW 8.4 VIS 27 pH 10.6
Present Operation: Drilling
Lost returns @ 3060'. Trip for holes in DP, 41 stds
down.
DC: \$9,184 CC: \$69,364

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 26 1992

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EQUITABLE RESOURCES ENERGY COMPANY

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T8S, R25E
1605' FSL, 586' FWL

5. Lease Designation and Serial No.

U-063597A

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Coyote Federal # 13-5

9. API Well No.

43-047-32261

10. Field and Pool, or Exploratory Area

Coyote Basin/Green River

11. County or Parish, State

Uintah County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other change in rig
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The drilling rig was released at 3 a.m. 10/19/92. Completion operations will be done by a completion rig by Cannon Well Service.

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman

Title

Coordinator of Environmental
and Regulatory Affairs

Date

10/20/92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

DAILY OPERATING REPORT

BALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

- 11-5-92 Completion
CP - 0; TP - 0. TOOH w/2-7/8" tbg & 5-1/2" csg scraper.
RU Schlumberger to bond log & perforate. Run bond log
from 4501' KB to 2890' KB & from 2150' KB to cmt top @
1920' KB. RIH w/4" x 26' perf gun. Perf w/9 shots 4303'-
07' KB .44 Dia. Perf w/20 shots 4403-97' KB, .44 dia.
Perf w/9 shots 4360-64' KB .44 Dia. TIH w/1 jt 2-7/8"
tbg, 5-1/2" packer & 147 jts 2-7/8" tbg, set packer @
4309' KB. RU Western to do break down. Pressure surface
equipment to 4500 psi - OK. Start break down, 6.4 PBM @
2200 psi. Start balls, 2 P (1138) - ball off. Surge
back. Pump for rate 2,000 psi @ 5.9 BPM. ISIP - 1000
psi. 5 min - 875 psi. RD Western. Ru Swab. Load used
67 bbls. made 11 swab runs. Recovered 39 bbls. Fluid
level stable @ 4000', last 3 runs 1% oil last 2 urn.
Load to recover 28 bbls.
DC: \$7,444 CC: \$155,846
- 11-6-92 Completion
CP - 0. MIRU Western to frac. Pressure test surface
equipment to 5100# - OK. Start frac. Frac well. ISIP -
1200 psi, 5 min - 440 psi, 10 min 190 psi, 15 min 2-
psi. Load used on job 469. Load to recover 497.
DC: \$23,495 CC: \$179,341
- 11-7-92 Completion
CP - 0 psi. TI w/1 jt 2-7/8" tbg, 5-1/2" R-3 packer, SN
& 141 jts tbg. Tag fill @ 4357' KB. Circ sand out to
PBD. Set packer @ 4309' KB. Made 6 swab runs. Stuck
swab in tbg w/sand. Pulled loose, recovered 36 BOW.
SDFN.
DC: \$2,224 CC: \$181,565

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

11-5-92 Completion

CP - 0; TP - 0. TOOH w/2-7/8" tbg & 5-1/2" csg scraper. RU Shclumberger to bond log & perforate. Run bond log from 4501' KB to 2890' KB & from 2150' KB to cmt top @ 1920' KB. RIH w/4" x 26' perf gun. Perf w/9 shots 4303'-07' KB .44 Dia. Perf w/20 shots 4403-97' KB, .44 dia. Perf w/9 shots 4360-64' KB .44 Dia. TIH w/1 jt 2-7/8" tbg, 5-1/2" packer & 147 jts 2-7/8" tbg, set packer @ 4309' KB. RU Western to do break down. Pressure surface equipment to 4500 psi - OK. Start break down, 6.4 PBM @ 2200 psi. Start balls, 2 P (1138) - ball off. Surge back. Pump for rate 2,000 psi @ 5.9 BPM. ISIP - 1000 psi. 5 min - 875 psi. RD Western. Ru Swab. Load used 67 bbls. made 11 swab runs. Recovered 39 bbls. Fluid level stable @ 4000', last 3 runs 1% oil last 2 urn. Load to recover 28 bbls.

DC: \$7,444

CC: \$155,846

11-6-92 Completion

CP - 0. MIRU Western to frac. Pressure test surface equipment to 5100# - OK. Start frac. Frac well. ISIP - 1200 psi, 5 min - 440 psi, 10 min 190 psi, 15 min 2-psi. Load used on job 469. Load to recover 497.

DC: \$23,495

CC: \$179,341

11-7-92 Completion

CP - 0 psi. TI w/1 jt 2-7/8" tbg, 5-1/2" R-3 packer, SN & 141 jts tbg. Tag fill @ 4357' KB. Circ sand out to PBTD. Set packer @ 4309' KB. Made 6 swab runs. Stuck swab in tbg w/sand. Pulled loose, recovered 36 BOW. SDFN.

DC: \$2,224

CC: \$181,565

11-8-92 Completion

Circ well clean to 4503' KB. Set packer @ 4340' KB. SDFN. Load to recover 461 bbls.

DC: \$910

CC: \$182,475

11-9-92 Completion

CP - 0, TP - 0. Tag fluid @ 1600'. Made 41 swab runs, recovered 246 bbls wtr w/trace of oil. Minor amount of frac sand on last 4 runs. Fluid stable @ 3100' last 5 runs. Release packer, tag fill @ 4420' KB. SDFN. Load to recover 215 bbls.

DC: \$3,143

CC: \$185,618

Post-It™ brand fax transmittal memo 7671		# of pages >
To Oil, Gas & Mining	From	Murray, Conrad
Co. State of Utah	Co.	Balcron Oil

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

11-10-92 Completion

Circ clean to 4503' KB. TOOH w/tbg & packer, TIH w/ 1 jt 2-7/8" tbg; one 2-7/8" x 4' P.S.; one SN; 140 jts 2-7/8" tbg. land mud anchor at 4342' KB. ND BOP, NU well head. TIH w/one 2-1/2 x 1-1/4 x 14-1/2 RHAC BHP; six 1" x 25' rods w/guides; 165 3/4 x 25' rods slick; one 3/4 x 8' pony; one 3/4 x 2' pony; one 1-1/4 x 16' SM polish rod. Clamp rods off. RDMO. Load to recover 215 bbls.
DC: \$11,998 CC: \$197,616

Post-It™ brand fax transmittal memo 7671		# of pages >	
To	Oil, Gas & Mining	From	Mally Conrad
Co.	State of Utah	Co.	Balcron Oil
Dept.		Phone #	406-259-7860
Fax #	801-359-3940	Fax #	406-245-1361



EQUITABLE RESOURCES ENERGY COMPANY,
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104
(406) 259-7860
FAX: (406) 245-1364

March 4, 1993

State of Utah
Uintah County
152 East 100 North
Vernal, UT 84078

Gentlemen:

Effective March 1, 1993, the name of our company has changed from Balcron Oil Company to Equitable Resources Energy Company, Balcron Oil Division.

Please make the necessary changes in your records and let me know if there is anything else we need to do in order to effect the change for the 1993 Uintah County Business License.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

RECEIVED

MAR 08 1993

DIVISION OF
OIL GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	LEC	7-21-93
2	DTS	58-LEC
3	VLC	
4	RJF	
5	RWM	
6	ADA	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)
- ☐ Designation of Agent
- ☐ Designation of Operator
- ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 3-1-93)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY CO FROM</u> (former operator)	<u>BALCRON OIL</u>
(address)	<u>BALCRON OIL DIVISION</u>	(address) <u>PO BOX 21017</u>
	<u>PO BOX 21017</u>	<u>BILLINGS MT 59104</u>
	<u>BILLINGS MT 59104</u>	
	phone (<u>406</u>) <u>259-7860</u>	phone (<u>406</u>) <u>259-7860</u>
	account no. <u>N 9890</u>	account no. <u>N9890</u>

Well(s) (attach additional page if needed):

Name: <u>**ALL WELLS**</u>	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twsp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (filed 3-8-93)
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: 134640.
- * 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-19-93)
- See 6. Cardex file has been updated for each well listed above. (3-19-93)
- See 7. Well file labels have been updated for each well listed above. (3-19-93)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-19-93)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- N/A 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) *930319 Rec'd bond rider eff. 3-4-93.

- Sec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. #5578314/80,000 Belton Oil, A Division of Equitable Resources Energy Company.
- Sec 2. A copy of this form has been placed in the new and former operators' bond files. *Upon completion of routing.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no) ____ Today's date ____ 19____. If yes, division response was made by letter dated ____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated ____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases. sec comments below

FILMING

- RWM 1. All attachments to this form have been microfilmed. Date: March 30 1993.

FILING

- Sec 1. Copies of all attachments to this form have been filed in each well file.
- Sec 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

930308 Bm 15.4. No change necessary, they always recognized company name as "Equitable Resources Energy Company, Belton Oil Division".



MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• BALCRON OIL

Utah Account No. _____

Report Period (Month/Year) _____

Amended Report ☐

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
BALCRON MONUMENT FED 42-6							
✓ 43-013-31364	11431 9S 17E 6		GRRV		— <i>W/W</i>		
BALCRON MONUMENT FED 41-15							
✓ 43-013-31367	99999 9S 16E 15						
BALCRON MONUMENT FED 32-15							
✓ 43-013-31368	99999 9S 16E 15						
BALCRON MONUMENT FED 23-11							
✓ 43-013-31369	99999 9S 16E 11						
BALCRON MONUMENT FED 13-5							
✓ 43-013-31370	99999 9S 17E 5						
BALCRON MONUMENT FED 23-15							
✓ 43-013-31373	99999 9S 16E 15						
BALCRON MONUMENT FED 14-11							
✓ 43-013-31374	99999 9S 16E 11						
BALCRON MONUMENT FED 24-5							
✓ 43-013-31375	11445 9S 17E 5		GRRV				
TOTAL							

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

RECEIVED

MAR 31 1993

Office: (406) 259-7860
FAX: (406) 245-1365 []
FAX: (406) 245-1361 X

DIVISION OF
OIL GAS & MINING

March 29, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Corrections to be Made on Survey Plats

In a review of our records we have discovered some errors in survey plats for four wells in the Monument Butte Field. One of those wells was drilled in 1992 and is on production, APDs for two have been submitted and are waiting on BLM approval, and one has only had an NOS submitted and an onsite conducted.

All of the errors were typographical in nature. In a discussion with the surveyor we used, we have received permission to make the corrections on the survey plats. We have made the corrections in our files and request that you make the corrections on any survey plats in your files for those locations. A list of locations and corrections is attached. Also attached are copies of the survey plats which our surveyor has FAXed to us. Those show the corrected information.

If you have any questions or need to discuss this, please give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Attachment

cc: State of Utah, Division of Oil, Gas and Mining
Dave McCoskery
Gary Kabeary
Bob Schalla

MONUMENT BUTTE FIELD

Duchesne County, Utah

PLEASE MAKE THE FOLLOWING CORRECTIONS IN THE SURVEY PLATS
ON FILE FOR THESE LOCATIONS:

Balcron Monument Federal #22-5

SE NW Section 5, T9S, R17E

Duchesne County, Utah

Plat says SW NW and it should be SE NW

Federal Lease #U020252

APD pending BLM approval

Balcron Monument Federal #13-8

NW SW Section 8, T9S, R17E

Duchesne County, Utah

Plat says SW SW and it should be NW SW

Federal Lease #U-007978

NOS and onsite only

Balcron Federal #13-5

43-013-31270

NW SW Section 5, T9S, R17E

Duchesne County, Utah

Plat shows R16E and it should be R17E

Federal Lease #U020252

APD pending BLM approval

Balcron Monument Federal #24-5

SE SW Section 5, T9S, R17E

Duchesne County, Utah

Plat shows R16E and it should be R17E

Federal Lease #U020252

Drilled in 1992 and is producing

Equitable Resources Energy Company

Balcron Oil Division

P.O. Box 21017

Billings, MT 59104

(406) 259-7860

3/29/93

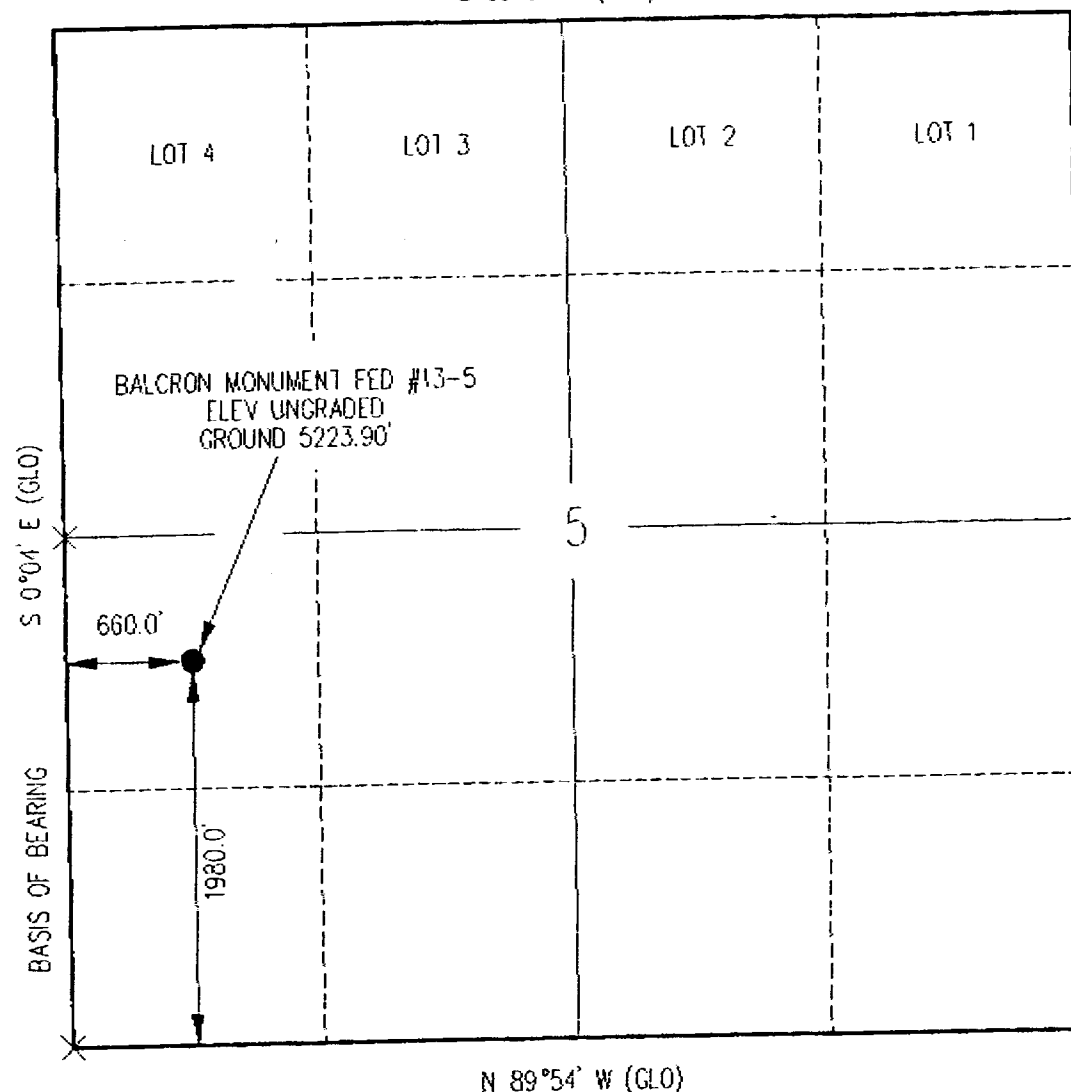
/rs

T9S, R17E, S.L.B. & M.

S 89°57' E (GLO)

EQUITABLE RESOURCES ENERGY CO.

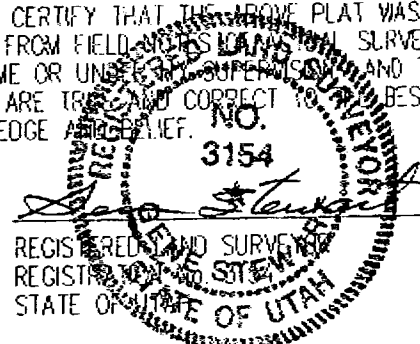
WELL LOCATION, BALCRON MONUMENT FED #13-5,
LOCATED AS SHOWN IN THE NW 1/4 SW 1/4
OF SECTION 5, T9S, R17E, S.L.B. & M,
DUCHESNE COUNTY UTAH.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O. PLAT 1911
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SOUTHEAST)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES AND SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.



TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS KI-
DATE: 7/27/92	WEATHER: CLEAR & HOT
NOTES:	FILE # #M-13-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

CONFIDENTIAL

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface
1980' FSL, 660' FWL NW SW
At proposed prod. zone

43-013-31370

DIVISION OF
OIL, GAS & MINING

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 16 miles from Myton, UT. See EXHIBIT "B"

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

40 acres

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5,620'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5,224'

22. APPROX. DATE WORK WILL START*

October 15, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	260'	250 sx G w/3% CaCl
See attached Drilling Program for production casing.				

RECEIVED

EXHIBITS

"A" Proposed Drilling Program

"G" Rig Layout

"B" Proposed Surface Use Program

"H" BOPE Schematic

"C" Geologic Prognosis

"I" Location Site and Elevation Plat

"D" Drilling Program/Casing Diagram

"J" Existing Roads/Planned Access (Maps A & B)

"E" Evidence of Bond Coverage

"K" Existing Wells (Map C)

"F" Archeology Report

"L" Drillsite Layout/Cut and Fill Diagrams

SEP 17 1992

NOTE: In accordance with request by the Vernal BLM representative, only one copy of EXHIBIT "F" Archeology Report is included with this permit.

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Bobbie Schuman

TITLE

Coordinator of Environmental
and Regulatory Affairs

DATE

9-15-92

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

ASSISTANT DISTRICT
MANAGER MINERALS

APPROVED BY *[Signature]*
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

MAY 10 1993

NOTICE OF APPROVAL

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Ut 080-217-278

WELL LOCATION INFORMATION

Company/Operator Equitable Resources Energy Co.

API Number 43-013-31370

Well Name & Number Balcron Monument Federal No. 13-5

Lease Number U-020252

Location NWSW Sec. 5 T. 9S. R. 17E.

Surface Ownership Federal

Date NOS Received August 13, 1992

Date APD Received September 17, 1992

NOTIFICATION REQUIREMENTS

- | | | |
|---------------------------------|---|--|
| Location Construction | - | at least forty-eight (48) hours prior to construction of location and access roads. |
| Location Completion | - | prior to moving on the drilling rig. |
| Spud Notice | - | at least twenty-four (24) hours prior to spudding the well. |
| Casing String and Cementing | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production Notice | - | within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at \pm 2,905 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to \pm 2,705 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka	(801) 781-1190
Petroleum Engineer	

Ed Forsman	(801) 789-7077
Petroleum Engineer	

BLM FAX Machine	(801) 789-3634
-----------------	----------------

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

Methods for Handling Waste Disposal

If a plastic nylon reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer.

Fall seeding will be done after September 15 and before the ground freezes. Spring seeding will be done prior to April 15.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her contractor shall contact the BLM Office at (801)789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

The requested emergency pit is hereby approved under NTL-2B, Section VI, subject to the following Conditions of Approval:

1. If emergency use occurs, the emergency pit shall be emptied and the liquids disposed of in accordance with applicable State and/or Federal regulations within 48 hours following its use, unless such time is extended by the authorized officer.
2. As much as practicable, the emergency pit shall be located on level ground, and away from drainage patterns and unstable ground.
3. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for the drilling reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
4. Produced water drain lines shall not go to the emergency pit.
5. The pit shall be bermed or otherwise constructed and maintained to prevent entrance of surface water.

6. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.
7. The pit shall be kept free of trash.

A qualified paleontologist will examine the location and access prior to surface disturbance to determine the presence of paleontological resources. If historic, archaeological, or paleontological resources are uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 []
FAX: (406) 245-1361 [✓]

July 7, 1993

RECEIVED

JUL 19 1993

DIVISION OF
OIL GAS & MINING

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are Paleontology Reports which were required for the following wellpad locations and access roads:

Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah
FLS #U-020252

43-013-31370

Balcron Monument Federal #23-11
NE SW Section 11, T9S, R16E
Duchesne County, Utah
FLS #U-096550

43-013-31369

Balcron Monument Federal #14-11
SW SW Section 11, T9S, R16E
Duchesne County, Utah
FLS #U-096547

43-013-31374

If you have any questions, please give me a call.

Sincerely,

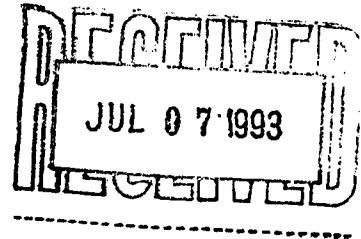
Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining



BALCRON OIL

Balcron Monument Federal #13-5

NW SW Section 5, T9S, R17E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN
PALEONTOLOGIST
235 EAST MAIN
VERNAL, UTAH 84078

JULY 1, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #13-5

Description of Geology and Topography-

This location is in a badlands area about 1/4 mile south of Castle Peak Draw, 10 miles south and 1 mile east of Myton, Utah. It is in the mouth of a small canyon which drains from the southwest, then turns east near the location, and then turns southeast past the location. The hills immediately to the north and west are 60 to 80 feet above the valley floor.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks possibly represent fluvial (stream) deposits on a delta near the shore of Eocene "Lake Uinta". This environment was good for preserving fossil vertebrates in the stream channels and over-the-bank deposits of the Uinta Formation.

Paleontological material found -

This area is littered with turtle shell fragments which seem to be weathering out of one or two particular layers. The proposed access road follows a fossiliferous layer to the proposed wellpad location from the point where it drops onto the valley floor. The eastern part of the wellpad (slightly lower in elevation) is composed of this same fossiliferous layer and besides turtle shell fragments, also has some mammal bone fragments. The fragments of mammal bone appear to possibly be part of the proximal end of the femur of a small to medium sized mammal. It is located 35 yards south 70 degrees east of the center stake. The western part of the location seems clear of fossils except for several washed in turtle shell fragments.

Recommendations-

If this proposed location cannot be moved to a less paleontologically sensitive area, then the following would be suggested for mitigation at the site:

- 1) Explore the immediate area of the mammal bone occurrence to see if it is an isolated piece (which it may be) or part of something larger.
- 2) If additional significant mammal material is found at the mammal bone site then a decision would have to be made as to whether it would be better to try to avoid that spot by moving the well or to excavate the fossil material (this can be time consuming and expensive depending on what is found there).
- 3) If the material is only an isolated piece of low significance, this spot, being lower than the rest of the location could perhaps just be covered over with fill and protected for the future in this manner. Top soil would have to be left as is on this lower section and just covered over. Removing topsoil would destroy the fossil material.
- 4) If construction does take place under the above recommendations, this construction should be monitored by a paleontologist because of the potential for encountering other fossil material in the layer to be effected.

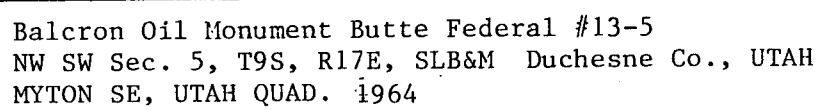
If there are other options for a different location for this wellpad and road, say onto the hills to the southwest or northwest, these might have fewer problems paleontologically.

Adrian A. Hamblin
Paleontologist

Date *July 3, 1993*

16.Sensitivity:	Critical		Significant	X	Important		Insignificant	
17.Recorded by: Alden Hamblin, Paleontologist / Abigail & Kedrik Hamblin				Date: June 28, 1993				

PALEONTOLOGY LOCALITY Data Sheet					Page 1 of 2 plus map										
					State Local. No. 42 DC 112V										
					Agency No.										
					Temp. No BALCRON MONUMENT BUTTE FEDERAL #13-5										
1. Type of locality														Other _____	
Invertebrate				Plant				Vertebrate		X		Trace			
2. Formation: UINTA				Horizon: "B"				Geologic Age: Late Eocene							
3. Description of Geology and Topography: This location is in a badlands area at the mouth of a small canyon which drains from the southwest, then turns east near the location, and then turns southeast past the location. The hills immediately to the north and west are 60 to 80 feet above the valley floor. All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks possibly represent fluvial (stream) deposits on a delta near the shore of Eocene "Lake Uinta". This environment was good for preserving fossil vertebrates in the stream channels and over-the-bank deposits of the Uinta Formation.															
4. Location of Outcrop: This location is 1/4 mile south of Castle Peak Draw, 10 miles south and 1 mile east of Myton, Utah.															
5. Map Ref.		USGS Quad		Myton SE, Utah				Scale		7.5 Min		Edition		1964	
		of		NW1/4		of		SW1/4		of Sectn		5 T 9 S R		17E Meridn SLB	
6. State: UTAH				County: DUCHESNE COUNTY				BLM/FS District: VERNAL- DINAMOND MT.							
7. Specimens Collected and Field Accession No. NONE															
8. Repository:															
9. Specimens Observed and Disposition: This area is littered with turtle shell fragments which seem to be weathering out of one or two particular layers. The proposed access road follows a fossiliferous layer to the proposed wellpad location from the point where it drops onto the valley floor. The eastern part of the wellpad (slightly lower in elevation) is composed of this same fossiliferous layer and besides turtle shell fragments, also has some mammal bone fragments. The fragments of mammals bone appear to possibly be part of the proximal end of the femur of a small to medium sized mammal. It is located 35 yards south 70 degrees east of the center stake. The western part of the location seems clear of fossil except for several washed in turtle shell fragments.															
10. Owner:															
Private		State		BLM		X		US FS		NPS		IND		MIL OTHR	
11. Recommendations for Further Work or Mitigation: If this proposed location cannot be moved to a less paleontologically sensitive area, then the following would be suggested for mitigation at the site:															
1) Explore the immediate area of the mammal bone occurrence to see if it is an isolated piece (which it may be) or part of something larger. 2) If additional significant mammal material is found at the mammal bone site then a decision would have to be made as to whether it would be better to try to avoid that spot by moving the well or to excavate the fossil material (this can be time consuming and expensive depending on what is found there). 3) If the material is only an isolated piece of low significance, this spot, being lower than the rest of the location could perhaps just be covered over with fill and protected for the future in this manner. Top soil would have to be left as is on this lower section and just covered over. Removing topsoil would destroy the fossil material. 4) If construction does take place under the above recommendations, this construction should be monitored by a paleontologist because of the potential for encountering other fossil material in the layer to be effected.															
If there are other options for a different location for this wellpad and road, say onto the hills to the southwest or northwest, these might have fewer problems paleontologically.															
12. Type of Map Made by Recorder:															
13. Disposition of Photo Negatives:															
14. Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Larimie, Wyoming.															
15. Remarks:															





EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 []
FAX: (406) 245-1361 [✓]

RECEIVED

JUL 29 1993

July 27, 1993

DIVISION OF
OIL GAS & MINING

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Monument Federal #13-5 *43-013-31370*
NW SW Section 5, T9S, R17E
Duchesne County, Utah

Enclosed is supplementary information to the paleontology report which was recently submitted for the wellpad and access road for the referenced well.

If you have any questions, please do not hesitate to call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

RECEIVED

JUL 29 1993

DIVISION OF
OIL GAS & MINING

BALCRON OIL

Balcron Monument Butte Federal #13-5

NW SW Section 5, T9S, R17E, SLB&M

Duchesne County, Utah

SUPPLEMENTARY INFORMATION TO

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN
PALEONTOLOGIST
235 EAST MAIN
VERNAL, UTAH 84078

JULY 23, 1993

RESULTS OF PALEONTOLOGY EXPLORATION OF FOSSIL MAMMAL BONE SITE AT BALCRON
MONUMENT BUTTE FEDERAL #13-5

The original paleontology report for Balcron Monument Butte Federal #13-5 described a site at the location with mammal bone fragments:

The fragments of mammal bone appear to possibly be part of the proximal end of the femur of a small to medium sized mammal. It is located 35 yards south 70 degrees east of the center stake.

Recommendation #1 of the original paleontology report was to further explore the immediate area of the mammal bone occurrence to see if it is an isolated piece (which it may be) or part of something larger.

On July 17 the location was visited again and the immediate area around the mammal bone fragments was explored to see if additional material was present. This was done by removing surrounding surface rock fragments and then sweeping the surface to see if any additional bone fragments were protruding from the surface. No additional fragments were found. The weathered ground surface up slope was excavated down to the shale layer (2 to 4 inches deep) for a distance of 4 to 5 feet up slope from the original fragment. No additional bone material was found in this material.

The original bone piece apparently is an isolated piece washed in with other rock fragments covering this area. It does not appear to be part of something eroding out of the spot where it was found. No other fragments were seen up slope from this spot. The piece could have washed in from any where up stream from this spot.

Recommendations-

The location could be constructed following items 3 and 4 of the original recommendations:

3) If the material is only an isolated piece of low significance, this spot, being lower than the rest of the location could perhaps just be covered over with fill and protected for the future in this manner. Top soil would have to be left as is on this lower section and just covered over. Removing topsoil would destroy the fossil material.

4) If construction does take place under the above recommendations, this construction should be monitored by a paleontologist because of the potential for encountering other fossil material in the layer to be effected.

Robert E. Hamblin
Paleontologist

Date *July 23, 1993*

RECEIVED

JUL 29 1993

DIVISION OF
OIL GAS & MINING

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES 43-013-31370

WELL NAME: MONUMENT FEDERAL 13-5

Section 5 Township 9S Range 17E County DUCHESNE

Drilling Contractor

Rig #

SPUDDED: Date 8/10/93

Time 9:00 AM

How DRY HOLE

Drilling will commence 8/17/93

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 8/10/93 SIGNED MKH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E

1980' FSL, 600' FWL

5. Lease Designation and Serial No.

U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Grn.River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Change (correction)
in water source
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator incorrectly submitted the source of water to be used for drilling as being from Bonanze, Utah. The source that will be used is from Owen Dale Anderson under Permit #43-9974; a copy of that permit is attached.

RECEIVED

AUG 13 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman
Bobbie Schuman

(This space for Federal or State office use)

Title

Coordinator of Environmental
and Regulatory Affairs

Date

August 12, 1993

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 []
FAX: (406) 245-1361 ~~X~~

August 12, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah

43-013--31370

Enclosed is our sundry notice reporting spud of the referenced well. Also enclosed is a sundry notice correcting the source of water to be used for drilling operations.

Sincerely,

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

RECEIVED

AUG 13 1993

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Grn.River

11. County or Parish, State

Duchesne County, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E

1980' FSL, 600' FWL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Report of Spud
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was spud at 9 a.m. 8/10/93 with a dry hole spudder (Leon Ross).

RECEIVED

AUG 13 1993

DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman

Title

Coordinator of Environmental
and Regulatory Affairs

Date

August 12, 1993

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E

Duchesne County, Utah

660' FWL, 1980' FSL

PTD: Formation: Green River

Prospect: JONAH UNIT, Monument Butte Field

Elevations:

Contractor: Molen Drilling Rig #1

Operator: Balcron/EREC

Spud: 8/10/93

Casing:

--TIGHT HOLE--

8-5-93 Start location. Have bone inspector on location. Got a lot of rock & dirt moved - 2 cats working.

8-6-93 Work on location.

8-7-93 Work on location.

8-8-93 Work on location & road.

8-9-93 Finish location & road.

8-10-93 Install liner & start drilling surface hole with Leon Ross Air Drilling. TD @247' GL.
DC: \$18,250 CC: \$18,250

8-11-93 Pull drillstem out of hole & lay down. Run 6 jts 8-5/8" 24# csg. Cement with Western Co. Good returns, approx 5 bbls cement back. Drill rat & mouse hole.

One 8-5/8" guide shoe	.70'
1 jt 8-5/8" 24# J-55 csg shaft	42.60'
insert float	--
5 jts 8-5/8 24# J-55 casing w/3 centralizers	202.80'
	246.10'

Set at Molen KB - 256.00'

Cement with 150 sxs Class "G" cement 2% CCL to 1/4# per sxs cello flake. Good returns., 5 bbls back. Plug down 1:00 PM on 8/11/93.
DC: \$10,375 CC: \$28,625

8-12-93 Ready for rotary.

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-21-93 TD: 256' (-0-) Day 1
MW 8.4 VIS 26 pH 7.5
Formation: --
Present Operation: Drill cement.
Moving rig & rig up. NU BOP & manifold. Test BOP &
manifold to 2000# - OK. Test csg to 1500# - OK. Fish
nut out with magnet that was dropped in hole. Trip in &
drill cement.
DC: 1,420 CC: \$30,045

8-22-93 TD: 1,295' (1,039') Day 2
MW 8.4 VIS 26 pH 8.0
Formation: Uintah
Present Operation: Drilling.
Drill, survey, work on pump.
DC: \$14,097 CC: \$44,142

8-23-93 TD: 2,226' (931') Day 3
MW 8.4 VIS 26 pH 10
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint.
DC: \$12,678 CC: \$56,820

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-26-93	TD: 3,816' (632') Day 6 MW 8.4 VIS 26 pH 10.5 Formation: Green River Present Operation: Drilling. Drill, survey, clean & paint. DC: \$8,817	CC: \$81,196
8-27-93	TD: 4,382' (566') Day 7 MW 8.4 VIS 26 pH 10.5 Formation: Green River Present Operation: Drilling. Drill, survey, clean & paint. DC: \$7,933	CC: \$89,129
8-28-93	TD: 4,875' (493') Day 8 MW 8.4 VIS 26 pH 10.0 Formation: Green River Present Operation: Drilling. Drill, survey, clean & paint. DC: \$7,177	CC: \$96,306
8-29-93	TD: 5,390' (515') Day 9 MW 8.4 VIS 26 pH 10.0 Formation: Green River Present Operation: Drilling. Drill, survey, clean on rig & paint. DC: \$8,017	CC: \$104,323
8-30-93	TD: 5,750 (360') Day 10 MW 8.4 VIS 26 pH 9.5 Formation: Green River Present Operation: Logging. Drill, survey, circulate, trip for logs, logging. TD at 10:00 PM 8-29-93. DC: \$7,399	CC: \$111,722

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-26-93	TD: 3,816' (632') Day 6 MW 8.4 VIS 26 pH 10.5 Formation: Green River Present Operation: Drilling. Drill, survey, clean & paint. DC: \$8,817	CC: \$81,196
8-27-93	TD: 4,382' (566') Day 7 MW 8.4 VIS 26 pH 10.5 Formation: Green River Present Operation: Drilling. Drill, survey, clean & paint. DC: \$7,933	CC: \$89,129

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-26-93 TD: 3,816' (632') Day 6
MW 8.4 VIS 26 pH 10.5
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint.
DC: \$8,817 CC: \$81,196

Post-It™ brand fax transmittal memo 7871		# of pages >
STATE OF UTAH	From	JENNIFER RAPSTAD
DIV. OIL, GAS	Co.	BALCRON OIL
Dept.	Phone	406-259-7860
MINING	Fax	406-245-1361
Fax	1-801-359-3940	

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-21-93 TD: 256' (-0-) Day 1
MW 8.4 VIS 26 pH 7.5
Formation: --
Present Operation: Drill cement.
Moving rig & rig up. NU BOP & manifold. Test BOP &
manifold to 2000# - OK. Test csg to 1500# - OK. Fish
nut out with magnet that was dropped in hole. Trip in &
drill cement.
DC: 1,420 CC: \$30,045

8-22-93 TD: 1,295' (1,039') Day 2
MW 8.4 VIS 26 pH 8.0
Formation: Uintah
Present Operation: Drilling.
Drill, survey, work on pump.
DC: \$14,097 CC: \$44,142

8-23-93 TD: 2,226' (931') Day 3
MW 8.4 VIS 26 pH 10
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint.
DC: \$12,678 CC: \$56,820

8-24-93 TD: 2,723' (497') Day 4
MW 8.4 VIS 26 pH 10.5
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint, survey, trip for bit,
drill.
DC: \$8,554 CC: \$65,374

8-25-93 TD: 3,184' (461') Day 5
MW 8.4 VIS 26 pH 10.5
Formation: Green River
Present Operation: Drilling.
Drill, survey, circulate gas bubble out. Drill OK.
DC: \$7,005 CC: \$72,379

**BALCRON OIL
DAILY OPERATING REPORT**

BALCRON MONUMENT FEDERAL #13-5

**Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah**

--TIGHT HOLE--

8-21-93 TD: 256' (-0-) Day 1
MW 8.4 VIS 26 pH 7.5
Formation: --
Present Operation: Drill cement.
Moving rig & rig up. NU BOP & manifold. Test BOP &
manifold to 2000# - OK. Test csg to 1500# - OK. Fish
nut out with magnet that was dropped in hole. Trip in &
drill cement.
DC: 1,420 CC: \$30,045

8-22-93 TD: 1,295' (1,039') Day 2
MW 8.4 VIS 26 pH 8.0
Formation: Uintah
Present Operation: Drilling.
Drill, survey, work on pump.
DC: \$14,097 CC: \$44,142

8-23-93 TD: 2,226' (931') Day 3
MW 8.4 VIS 26 pH 10
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint.
DC: \$12,678 CC: \$56,820

8-24-93 TD: 2,723' (497') Day 4
MW 8.4 VIS 26 pH 10.5
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean & paint, survey, trip for bit,
drill.
DC: \$8,554 CC: \$65,374

Post-It™ brand fax transmittal memo 7671 # of pages >

To	Kathleen L. Cox	From	Jeannie Rapstad
Cp.	Wildrose Resources	Cp.	Balcron Oil Co.
Dept.		Phone #	406 259-7860
Fax #	303 770 6568	Fax #	406 245-1361

WELL REPORT

MONUMENT BUTTE FIELD
Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah

By

DENNIS REHRIG & ASSOCIATES, INC.

Oil & Gas Consulting

4924 Rimrock Road
Billings, Montana 59106

(406) 656-4785

WELLSITE GEOLOGIST'S REPORT

MONUMENT BUTTE FIELD
Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah

DENNIS REHRIG & ASSOCIATES, INC.

Oil & Gas Consulting

4924 Rimrock Road
Billings, Montana 59106

(406) 656-4785

DENNIS C. REHRIG & ASSOCIATES, INC.

Oil & Gas Exploration

4924 RIMROCK ROAD • BILLINGS, MONTANA 59106 • (406) 656-4785

MONUMENT BUTTE FIELD

Balcron Oil Co. 13-5J Monument Butte-Federal

1980' FSL, 660' FWL, Sec. 5, T9S-R17E

Duchesne County, Utah

TABLE OF CONTENTS

<u>Page</u>	<u>Item</u>
1	General Well Review
2	Well Data
5	Daily Drilling History
7	Surveys
8	Bit Record
9	Mud Record
10	Time/Depth Penetration Chart
11	Drilled Well Formation Tops
12	Reference Well Formation Tops
13	Significant Gas and Sample Shows
14	Sample Descriptions
Insert	Geologic Well Log

By:

DENNIS C. REHRIG

Consulting Geologist

For:

DENNIS C. REHRIG & ASSOCIATES, INC.

**Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah**

GENERAL REVIEW

The Balcron Oil Co. 13-5J Monument Butte-Federal (NW $\frac{1}{4}$ SW $\frac{1}{4}$ S-5, T9S-R17E, Duchesne County, Utah) was drilled as an infill development well in the Monument Butte Field.

This well was supported by extensive subsurface offset well control and drilled for future water flood control and identification of anticipated additional Douglas Creek and Carbonate Marker oil sands.

The surface hole was air drilled and surface casing was set prior to moving Molen Drilling Co. Rig No. 1 on location and spudding on August 21, 1993. A two-man mud logging unit and wellsite geologist were on site from 1300' to total depth. The Green River and Douglas Creek formations were penetrated at 1406' and 4602' making them respectively 10' low and 7' high structurally to the offset Diamond Shamrock Corp. 43-6 Allen-Federal (NE $\frac{1}{4}$ SE $\frac{1}{4}$ S-6, T9S-R17E) control well.

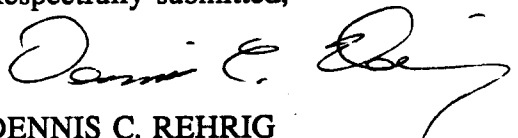
Numerous sandstone zones starting at 2614' appear prospective based on mud-log, sample shows, and E-logs. All sandstones which had significant gas and/or visual shows are noted elsewhere in this report.

This well was drilled to 5750' (Driller) and 5744' (Logger).

Subsequent to log review the operator elected to run 5 $\frac{1}{2}$ " production casing to total depth.

The rotary was released 8/31/93.

Respectfully submitted,


DENNIS C. REHRIG

**Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah**

WELL DATA

<u>OPERATOR:</u>	Balcron Oil Company
<u>LEASE & WELL NO.:</u>	Monument Butte-Federal 13-5J
<u>LOCATION:</u>	1980' FSL, 660' FWL, Sec. 5, T9S-R17E
<u>PROSPECT/FIELD:</u>	Monument Butte Field
<u>COUNTY:</u>	Duchesne
<u>STATE:</u>	Utah
<u>BASIN:</u>	Uintah
<u>WELL TYPE:</u>	Development
<u>BASIS FOR PROSPECT:</u>	Subsurface well control
<u>ELEVATIONS:</u>	G.L. 5223', K.B. 5236'
<u>SPUD DATE:</u>	9:00 AM (MDT) 8/10/93 (Small air rig for surface casing)
<u>OUT FROM UNDER SURFACE CASING:</u>	5:30 AM (MDT) 8/21/93 (Surface casing previously set)
<u>DRILLING COMPLETED:</u>	10:00 PM (MDT) 8/29/93
<u>LOGGING COMPLETED:</u>	8:30 AM (MDT) 8/30/93
<u>RIG RELEASE:</u>	3:00 AM (MDT) 8/31/93
<u>TOTAL DAYS SPUD THROUGH LOGGING:</u>	10 days
<u>TOTAL DEPTH:</u>	5,750' (Driller) 4,744' (Logger)
<u>TOTAL DRILLING DAYS:</u>	9 days (Surface casing previously set)

HOLE SIZE & CASING:

Hole Size

12¼" Surface to 256'
7½" 256' to T.D.

Casing Size

8⅝" surface to 256' K.B.
5½" Production Casing
to 5751' K.B.

WELL STATUS:

Cased for completion attempt in Douglas Creek.

PENETRATION:

282' below Carbonate Marker.

COMPANY DRILLING CONSULTANT:

Al Plunkett

DRILLING CONTRACTOR:

Molen Drilling Co.

RIG NO.:

1

TOOLPUSHER:

Chuck Doornek

RIG SPECIFICATIONS:

Draw Works – EMSO GB-250T, powered by two
Detroit 6-71 300 HP Diesels,
Derrick – Idela, 104' mast.

BLOW OUT PREVENTER:

Make: Schaffer LWS. Type: 10" X 3000 lbs.
Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XH.
BHA: Length 807.06', 15 jts-6" DC- 445.75' &
12 jts heavy weight pipe - 361.31'.
Tool joints: 6¼" OD, Type - XH.

PUMPS:

No. 1 – EMSO D-375 14" Stroke 6" liner.

MUD COMPANY & ENGINEER:

Profco Drilling Fluids – Jim Garcia

MUD PROGRAM:

KCl/water 256'-Total Depth

ELECTRIC OPEN-HOLE
LOGGING PROGRAM:

Schlumberger Well Services
Engineer: Jeff Gebhart
Witnessed by: Dennis Rehrig and Al Plunkett
– Dual Laterolog w/Micro-SFL w/Gamma Ray, SP,
Caliper and Tension Curves (255'-5742')
– Compensated Neutron/Litho-Density (2500'-5742')

LOST CIRCULATION ZONE
OR DRILLING PROBLEMS:

Had some gas flow, shut-in BOP's and circulated out
gas, nothing serious.

WELLSITE GEOLOGIST:

Dennis C. Rehrig

SAMPLING PROGRAM: 50' Samples from 1,300'-3,800'.
30' Samples from 3,800'-Total Depth,
except caught extra or 10' samples through
drilling breaks.

SAMPLE QUALITY: Generally fair-good unless noted otherwise.

SAMPLE DISPOSITION: Utah Geological Survey - Salt Lake City, Utah
and Amstrat - Denver, Colorado.

MUD LOGGING EQUIPMENT: Monaco Logging - two-man unit operated by
Mark Hoffman, Charlie Crocker, Chris Jensen.

CORE PROGRAM: None.

DRILL STEM TEST: None.

SURFACE CASING: 8-5/8" New, 24 wt, Maverick, 6 jts,
Surface - 256' K.B. Cemented w/150 sxs Class 'G'
w/2% CaCl₂ and 1/4 lb/sx CelloFlake.
Plug down at 1:00 PM (MDT) on 8/11/93. Surface
hole drilled and casing set by small air-impact rig.

PRODUCTION CASING: Ran 133 jts 5 1/2" casing to 5751' K.B. Cemented
w/166 sxs Hilift and 258 sxs Class 'G'. Plug down @
11:00 PM 8/30/93.

**Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah**

DAILY DRILLING HISTORY

Daily drilling reports taken primarily from Rig Tower Sheets and supplemented by Drilling Supervisor.
Day commenced at 8:00 AM (MDT) day of prior day of report and ends at 8:00 AM (MDT) day of report.

Days Since Spud	Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
1	8/21	285'	29'	2.50	0	21.50	1	35	65	500	RU, NU BOPS, test blind and pipe rams, kill valve, choke manifold and upper kelly cock to 2000 psi, test performance closing unit, PU DC's, GIH to fish w/magnate for nut, tagged @ 170' TOH, TIH to drill cement, drilling cement, drilling 7 7/8 hole.
2	8/22	1304'	1019'	22.75	0.50	0.75	1	35	70	700	Drilling, circ & survey, drilling, work on pump, drilling, survey, drilling.
3	8/23	2250	946'	23.50	0	0.50	1	35	70	700	Drilling, survey, drilling.
4	8/24	2735'	485'	18.25	1.00	4.75	2	30	80	750	Drilling, circ, survey, drilling, TOH @ 2712' for bit, TIH w/DC's and HWDP, cut and slip drilling line, TIH, drilling.
5	8/25	3206'	471'	20.00	0	4.00	2	35	75	650	Drilling, circ & survey, drilling, well blowing thru drilling floor, shut in w/BOP @ 2934', opened backside to pit, blew down & circ out gas, drilling.

6	8/26	3845'	639'	23.00	0	1.00	2	40	75	650	Drilling, circ & survey, drilling, level derrick, survey, drilling.
7	8/27	4398'	553'	23.50	0	0.50	2	40	75	700	Drilling, survey, drilling.
8/	8/28	4898'	500'	23.50	0	0.50	2	40	75	700	Drilling, survey, drilling.
9	8/29	5420'	522'	23.50	0	0.50	2	40	75	700	Drilling, survey, drilling.
10	8/30	5750'	330'	14.00	0	10.0	2	40	75	700	Drilling, reach TD, circ for E-logs, drop survey, TOH, RU loggers and log.
11	8/31	5756'	0	-	-	19.0	-	-	-	-	Finished logging, RD loggers, TIH, circ & condition for casing, TOH, LD DP & DC, RU casing crew, run 5½" production casing and cement, nipped down BOP, cleaned tanks, release rig 3:00 AM 8/31/93.

**Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E**

SURVEYS VERTICAL HOLE

<u>Drilling Depth</u>	<u>Degrees</u>
307'	1/2°
817'	3/4°
1304'	1/2°
1827'	1°
2276'	2°
2492'	2 3/4°
2625'	3°
2687'	3°
2768'	3 1/2°
2880'	2°
3227'	1 3/4°
3700'	1 1/2°
4221'	1 3/4°
4709'	2°
5229'	1 1/2°
5750'	3°

Balcron Oil Co. 13-5J Monument Butte-Federal

1980' FSL, 660' FWL, Sec. 5, T9S-R17E

Duchesne County, Utah

BIT RECORD

Contractor: Molen Drilling Co. Operator: Balcron Oil Co. Lease: Federal State: Utah County: Duchesne Sec/T-ship/Range: NWSW Sec. 5, T9S-R17E	Rig No. 1 Field: Monument Butte Well No. 13-5J	Rig Make: Emsco GB-250T Derrick: Idela, 104' mast Pump #1: Emsco D-375 Liner 6" x 14"	Collars: ODxIDxLength BHA 6" x 2 1/4" x 807.06' Drill Pipe-Size Wt 4 1/2" 16.6 E Tool Joint: 6 1/4"	SPUD 8/10/93 (for surface casing) Under Surface 8/21/93 (rotary) Total Depth 8/29/93 Total Days Drilling 9	Toolpusher/Drillers Chuck Doornek A. E. Cook Joe J. Wipf Calvin L. Clyde Operators Representative Al Plunkett Mud Type: KCl/water
---	---	---	--	--	---

Bit No	Bit Size	Bit Mfgr	Bit Type	Jet Size 32nds	Ser. No.	Depth Out	Feet	Hrs	Ft/ Hr	Cum Hrs	Wt 1000#	Rotary RPM	Vert Dev	Pump Press	P U M P S			M U D		D U L L C O N D			Remarks Date, Formation, etc.
															No	Liner ID	SPM	Wt	Vis	T	B	G	
1RR	7%	Sec	M85F	3-14	622621	2712	2456	64	38	64	35/40	65/75	2 3/4	700	1	6"	52	KCl wtr					
2RR	7%	STC	F45H	3-15	KV8804	5750	3038	130 1/2	23.3	194 1/2	40	70/75	3	700	1	6"	52	KCl wtr					

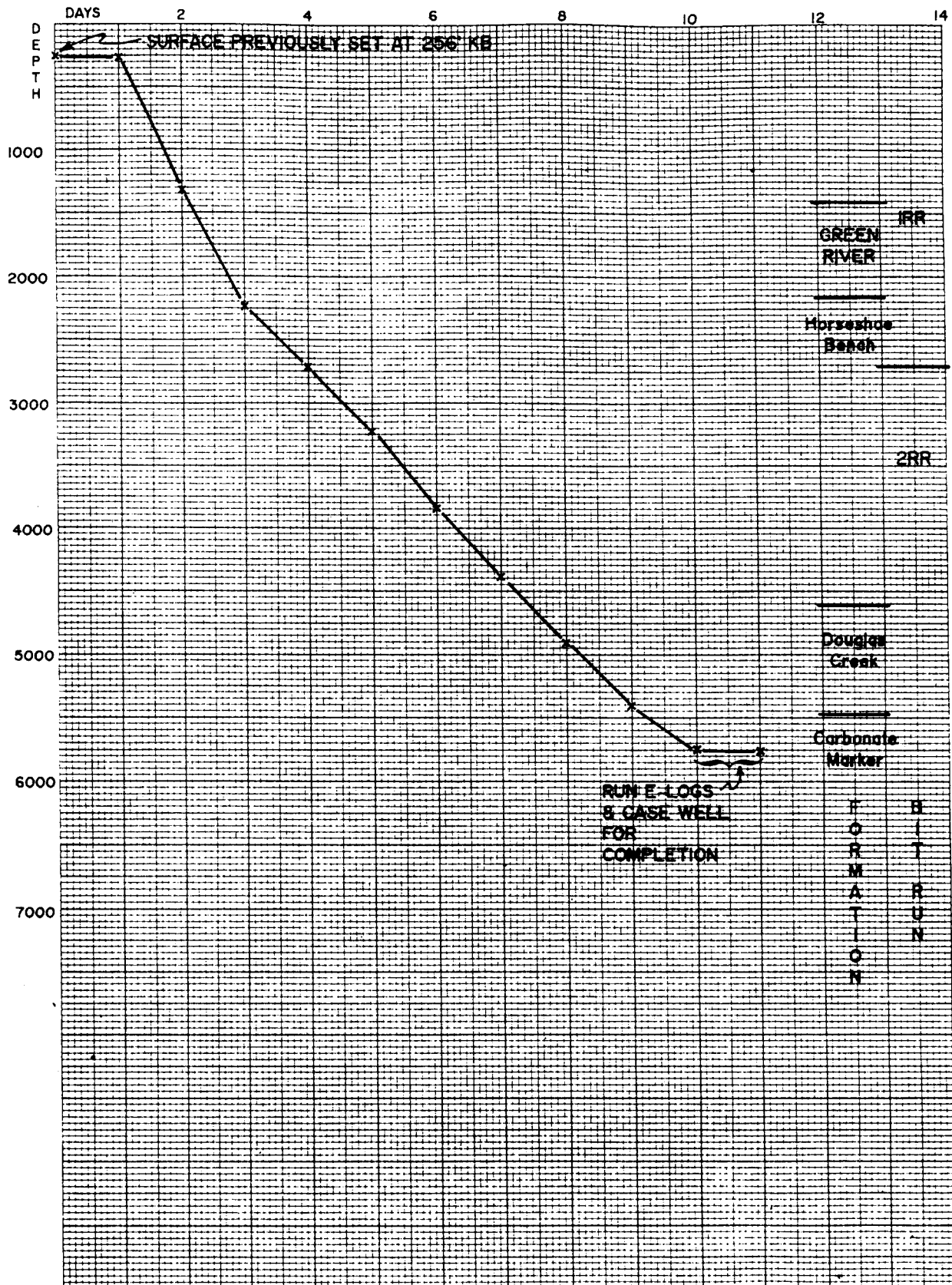
DAILY MUD REPORT

1993

Profco Drilling Fluids - Representative: Jim Garcia

	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	
Time Sample Taken	4:30 pm	3:00 pm	12:00 pm	12:00 pm	3:00 pm	4:00 pm	9:00 am	1:00 pm	10:00 am	11:00 am	
Depth (Feet)	0	675'	1517'	2517'	2881'	3431'	3894'	4529'	4967'	5524'	
Weight (PPG)	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	
Funnel Viscosity (sec/qt API)		26	26	26	26	26	26	26	26	26	
Plastic Viscosity cp @ 120°F											
Yield Point (lb/100 ft ²)											
Gel Strength (lb/100 ft ²) 10 sec/10 min											
pH - Strip	7.5	8.0	10.0	10.5	10.5	10.5	10.5	10.0	10.0	9.5	
Filtrate API (ml/30 min)											
Cake Thickness (32nd in.)											
Alkalinity Filtrate (P _p /M _p)	1.9	1.9	.2/.7	.4/.7	.4/.7	.6/1.4	.5/1.1	.6/1.3	.5/1.3	.5/1.4	
Chloride (mg/L)	3,200	6,200	10,000	12,000	13,500	14,500	15,000	16,000	17,000	18,000	
Calcium	240	200	80	60	60	40	40	60	120	80	
Sand Content (% by vol)											
Solids Content (% by vol)					Tr	Tr	Tr				
LCM (% by volume)											
Oil content (% by vol.)											
Water content (% by vol.)											
KCl (% by vol.)		1.0	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Mud Type		KCl water		KCl water					KCl water		
Remarks:											

BALCRON OIL 13-5J MONUMENT BUTTE-FEDERAL
 1980' FSL 660' FWL, SECTION 5, T 9 S-R 17 E
 DUCHESNE COUNTY, UTAH
 TIME / DEPTH PENETRATION CURVE



Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E

FORMATION TOPS

ELEVATIONS: G.L. 5223', K.B. 5236'

	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Wells *</u>
Green River	1406'	(+3830')	10' Lo
Horseshoe Bench	2161'	(+3075')	21' Hi
2nd Garden Gulch	3812'	(+1424')	7' Lo
Yellow Marker	4444'	(+ 792')	5' Hi
Douglas Creek	4602'	(+ 634')	7' Hi
2nd Douglas Creek Mkr	4841'	(+ 395')	16' Hi
Green Marker	4980'	(+ 256')	22' Hi
Carbonate Marker	5468'	(+ 232')	NDE

TOTAL DEPTH: 5744' Logger

* Reference Well:

Diamond Shamrock Corp. 43-6 Allen-Federal
NE¼SE¼ Sec. 6, T9S-R17E
Duchesne County, Utah

Note: Correlations and nomenclature that used by operator.

Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah

REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS

Diamond Shamrock Corp.
43-6 Allen-Federal
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 6, T9S-R17E
Duchesne County, Utah

K.B. 5265'

Formation

Green River	1425'	(+3840')
Horseshoe Bench	2211'	(+3054')
2nd Garden Gulch	3834'	(+1431')
Yellow Marker	4478'	(+ 787')
Douglas Creek	4638'	(+ 627')
2nd Douglas Creek Mkr	4886'	(+ 379')
Green Marker	5031'	(+ 234')
Carbonate Marker	NDE	-

TOTAL DEPTH 5353' (Logger)

Note: Correlations and nomenclature that used by operator.

Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah

SIGNIFICANT GAS KICKS AND DRILLING BREAKS

Information from Mud Log

Formation	Sample Depth	Time (Before-During-After) Min/Ft	Total Gas (Before-During-After)	
Horseshoe Bench	2620'-2710'	4.0 - 2.5 - 5.0	16 - 325 - 40	
Horseshoe Bench	2775'-2815'	4.0 - 2.0 - 4.5	14 - 100 - 20	
Horseshoe Bench	2882'-2920'	3.5 - 2.0 - 2.5	20 - 200+ - 20	Hot wired saturated, had gas flow
Horseshoe Bench	3472'-3490'	2.5 - 1.0 - 2.0		Hot wire saturated had heavies
Horseshoe Bench	3600'-3625'	2.0 - 1.0 - 2.0	1400-1800-1000	
2nd Garden Gulch	3820'-3830'	2.0 - 1.0 - 2.0	1000-3000-1000	
2nd Garden Gulch	4156'-4162'	2.5 - 1.5 - 2.5	1600-1900-1600	
2nd Garden Gulch	4194'-4208'	2.5 - 0.5 - 2.5	1600-2050-1600	
Douglas Creek	4642'-4654'	3.0 - 1.0 - 3.0	600-800-160	Good heavies
Douglas Creek	4746'-4750'	3.5 - 2.0 - 2.5	100-500-80	
Douglas Creek	4796'-4810'	2.5 - 1.0 - 3.0	100-600-60	
Carbonate Marker	5516'-5524'	4.0 - 1.0 - 3.0	300-1000-300	

NOTE: After gas flow to surface at 2882'-2920', gas periodically bubbled over nipple, causing very high background gas and saturating hotwire a few times. Consequently total gas increase may not have been large in some sandstones, but significant heavy gas fraction increases and/or visual shows should be emphasized if noted.

POTENTIAL SANDSTONE ZONES

Provided by Wellsite Geologist

E-Log Depth (Compensated Neutron - Litho Density Log)

2616'-2696'	Gross Interval
2786'-2800'	
2894'-2898'	Flowed gas to surface
3468'-3474'	
3566'-3571'	
3596'-3620'	
3812'-3825'	
4151'-4155'	
4188'-4240'	
*4636'-4648'	
4742'-4749'	
*4788'-4804'	
5105'-5111'	
*5509'-5516'	

*Probably best zones below Douglas Creek

Note: Sandstone not always seen in samples due to sample quality or thinness of sandstone in some cases.

**Balcron Oil Co. 13-5J Monument Butte-Federal
1980' FSL, 660' FWL, Sec. 5, T9S-R17E
Duchesne County, Utah**

SAMPLE DESCRIPTIONS

By: Dennis C. Rehrig

Samples caught and lagged from shale shaker by Mud Loggers. Samples were examined wet, under reflected light and 3x magnification from 1300' to total depth, for porosity identification samples were dried. Sample descriptions generally tie well to drill time log. Sample quality was fair-good unless stated otherwise in descriptions. All sample descriptions are interpretive.

1300-1400 Siltstone - occasionally grading to very fine grained Sandstone, white-cream-light gray, moderately firm-slightly friable in part, commonly argillaceous, commonly specked with Glauconite and/or carbonaceous material, slightly calcareous in part, frequent microcrystalline disseminated Pyrite, NSFOC.

Shale - light-medium gray, occasionally white, moderately firm-moderately soft, silty in part, slightly calcareous in part, frequent light-medium gray carbonaceous material, frequently Pyritic.

1400-50 Siltstone - generally as above, increase in dark brown-black carbonaceous material.

Shale - generally as above, some light-medium brown color, increase in dark brown-black carbonaceous material.

Some Limestone-Dolomite Limestone - buff-tan-light brown, microcrystalline, moderately firm-moderately soft, dense, slightly argillaceous in part.

1450-1500 Shale - cream-light to medium gray - slightly brown to grayish brown, slightly-moderately calcareous, frequent dark gray-black carbonaceous material, moderately firm, moderately soft.

Limestone-Dolomite Limestone as above, but more present.

Some Siltstone - as above.

- 1500-1550 Limestone-Dolomitic Limestone, tan-light to medium brown, grayish brown, cryptocrystalline-microcrystalline, firm and brittle-moderately soft, argillaceous in part, some carbonaceous material and Pyrite, dull yellow mineral fluorescence, no stain or cut.
- Shale - light-medium gray, moderately soft, moderately-highly calcareous, some carbonaceous material and Pyrite.
- 1550-1600 Dolomite-Limestone Dolomite - light-medium brown-grayish brown, cryptocrystalline-microcrystalline, dense, occasionally hard and brittle, generally moderately firm, some dark gray carbonaceous material, frequently microcrystalline disseminated Pyrite, siliceous in part.
- Limestone-Dolomite Limestone - buff-tan, microcrystalline, soft to slightly earthy in part, argillaceous in part, frequently microcrystalline Pyrite.
- 1600-1650 Limestone-Dolomite Limestone - generally tan-medium brown-grayish brown, occasionally cream, cryptocrystalline-microcrystalline, generally moderately firm, occasionally soft to slightly earthy, argillaceous in part, some dark gray carbonaceous material, frequently Pyritic, dense.
- Some Dolomite-Limy Dolomite - medium-dark brown, microcrystalline, moderately firm-firm, dense.
- 1650-1700 Limy Dolomite-occasional Dolomite - tan-light brown, cryptocrystalline-microcrystalline, firm-moderately firm, occasionally moderately soft, dense, generally no carbonaceous material, pyritic in part, no stain or fluorescence, trace very weak bluish yellow milky cut.
- 1700-1750 Limy Dolomite-occasionally Dolomite in part, but no show.
- Some Limestone, cream-buff, cryptocrystalline, soft-earthly, generally argillaceous.
- 1750-1800 Dolomite-Limy Dolomite - amber brown-grayish brown, cryptocrystalline-microcrystalline, moderately firm-moderately soft, dense, some Pyrite, siliceous in part.

- 1800–1900 Dolomite–Limy Dolomite, generally tan–light brown, frequently cream–buff–light gray, microcrystalline to cryptocrystalline, moderately firm–moderately soft, dense, argillaceous in part, frequently microcrystalline disseminated Pyrite, siliceous in part, NSFOC.
- 1900–2000 Dolomite–Limy Dolomite, mostly tan–amber brown, occasionally cream–buff–grayish tan, cryptocrystalline–microcrystalline, moderately hard and brittle–moderately firm, waxy sheen on chip surfaces, frequent Pyrite, siliceous in part, no stain, some yellow mineral fluorescence, no cut.
- 2000–2050 Dolomite–Limy Dolomite – generally grayish tan–medium brown, microcrystalline–cryptocrystalline, generally moderately firm, argillaceous in part, commonly pyritic, dense, some dark brown carbonaceous material, some slightly siliceous in part.
- Some Limestone–Argillaceous Limestone – cream–buff, microcrystalline, moderately soft, dense.
- 2050–2100 Dolomite–Limy Dolomite as above, some slightly amber brown color.
- 2100–2150 Dolomite–Limy Dolomite – grayish tan–amber brown–slightly orangish brown, microcrystalline, moderately firm–moderately soft, some dark gray–dark brown carbonaceous material, dense.
- 2150–2200 Dolomite–Limy Dolomite – buff–tan–medium brown–amber brown, generally moderately firm, microcrystalline–cryptocrystalline, dense, some dark brown carbonaceous material, some Pyrite, argillaceous in part, slightly siliceous in part.
- Shale – tinge greenish gray, slightly–moderately calcareous, moderately firm, sub–blocky.
- Some Siltstone – clear–white in part, argillaceous in part, frequently pyritic, moderately firm–slightly friable, some specks of dark gray carbonaceous material, NSFOC, slightly–moderately calcareous.

- 2200-2050 Siltstone – grading to very fine Sandstone in part, clear–slightly tan–slightly buff, slightly–moderately calcareous, moderately firm–moderately friable in part, no apparent porosity, argillaceous in part, some amber–dark brown carbonaceous material, NSFOC, some Pyrite.
- Some Shale as above, also cream–slightly tan in color.
- 2250-2300 Dolomite–Limy Dolomite, amber brown–tan in part, microcrystalline–cryptocrystalline, moderately firm, dense, trace Pyrite.
- Siltstone – generally as above, some very fine–fine quartz grains, sub–angular to sub–round, NSFOC.
- Some Shale – cream, some smooth striated surfaces, slightly–moderately calcareous, moderately soft, some medium–dark gray carbonaceous material, some microcrystalline Pyrite.
- 2300-2350 Dolomite–Limy Dolomite – generally medium–dark brown, frequently tan–grayish tan–grayish brown, microcrystalline–cryptocrystalline, firm–moderately firm, dense.
- Some Limestone–Argillaceous Limestone, buff–light tan, soft–earthy in part.
- 2350-2400 Limy Dolomite – tan–medium to dark brown, microcrystalline, moderately firm–moderately soft, argillaceous in tan colored rock, trace dark brown–black carbonaceous material, dense, NSFOC.
- 2400-2450 Limy Dolomite – tan–light to medium brown, frequently grayish brown, microcrystalline, moderately firm–moderately soft, some dark brown–dark gray carbonaceous material, trace Pyrite, no stain, some dull yellow mineral fluorescence, trace very weak dull yellow streaming–milky cut, argillaceous in part.
- 2450-2500 Limestone–Dolomite Limestone – buff–tan–medium brown, frequently grayish brown, microcrystalline–cryptocrystalline, frequently argillaceous, moderately soft, frequent algal laminae, much carbonaceous material, some Pyrite, no stain, some dull yellow mineral fluorescence, trace of very weak bluish yellow milky cut.

Limy Dolomite-Dolomite, as above.

2500-2550 Limy Dolomite-Dolomite, generally buff-tan, cryptocrystalline-microcrystalline, moderately firm-moderately soft, argillaceous in part, trace Pyrite.

Some Limestone-Dolomite Limestone as above, w/similar show.

2550-2600 Limy Dolomite-Dolomite - buff-tan-amber brown, microcrystalline-cryptocrystalline, moderately firm-moderately soft, argillaceous in part, siliceous in part, generally carbonaceous rock, no stain, some dull yellow mineral fluorescence, trace very weak bluish yellow milky cut, some Pyrite.

2600-2625 Sandstone - very fine-fine grained, grading to Siltstone in part, generally clear, frequently milky-white, generally unconsolidated, assume fair-good intergranular porosity, sub-angular to sub-round, moderately well sorted, some calcareous cement in part, some spotty dark brown oil stain, with dull yellow fluorescence and weak bluish yellow streaming cut, some dark brown-black carbonaceous material.

Some Shale, light gray-cream, silty in part, slightly-moderately calcareous, moderately soft-soft, some Pyrite, some Limy Dolomite-Dolomite as above.

2625-2635 Sandstone as above with slightly better bluish yellow streaming cut.

Some Shale as above.

2635-2645 Sandstone - generally clear, frequently milky-white, very fine-fine grain, grading to Siltstone in part, occasionally medium grained, generally unconsolidated, sub-angular to sub-round, moderately well sorted, some calcareous cement, frequent spotty dark brown oil stain, with dull yellow fluorescence, and fair bluish yellow streaming-milky cut. Show is better than above.

Some Shale as above.

2645-2700 Sandstone as above.

Some Shale as above.

- 2700-2750 Shale - grading to Siltstone, generally tan, occasionally grayish tan, moderately firm-occasionally soft, frequently dark gray-dark brown carbonaceous material, frequently pyritic, slightly-moderately calcareous.
- Some loose very fine-fine Quartz grains as above, occasionally medium grained, well rounded and frosted Quartz grains, NSFOC.
- 2750-2800 Shale and Siltstone as above, also some mottled to laminated medium-dark brown-orangish brown Shale, highly carbonaceous-slightly petroliferous, no stain, dull gold fluorescence in part, and very weak bluish milky cut, moderately soft, slightly-moderately calcareous. A few black highly carbonaceous chips.
- Limy Dolomite - buff-tan-grayish tan, microcrystalline-cryptocrystalline, moderately firm-moderately soft, frequently pyritic, argillaceous in part.
- 2800-2850 Shale - tan-medium to dark brown, moderately soft, frequently earthy, moderately-highly calcareous, highly carbonaceous - black and petroliferous in part, laminated in part, no stain, dull gold fluorescence in part, weak-fair bluish yellow streaming to milky cut.
- Some Limy Dolomite as above.
- Some Siltstone as above.
- 2850-2900 Shale as above, with similar show, also Shale, cream-light gray, slightly green tinge in part, moderately firm-soft, some carbonaceous material, silty in part, moderately calcareous, frequently pyritic.
- Siltstone - clear-white, light gray, frequently argillaceous, moderately firm, pyritic, moderately calcareous, some Glauconite and carbonaceous material, NSFOC.
- Trace very fine grained Sandstone grading to Siltstone, well consolidated, no apparent porosity, moderately calcareous cement, some Glauconite, sub-angular to sub-round, moderately well sorted, NSFOC.
- 2900-2925 Sandstone, very fine grained, grading to Siltstone, clear-milky-white in part, generally unconsolidated, some calcareous cement, assume fair intergranular porosity, sub-angular to sub-round, moderately well sorted, some carbonaceous material and Pyrite, some spotty dark brown oil stain in part.

no fluorescence, very weak bluish yellow milky cut. Not a strong visual show.

Some Shale – cream–light gray as above.

At 2934' mud blowing up through drilling floor to A–frame, closed well in.

2925–2950 Sandstone – very fine grained, ranging to Siltstone, clear–milky–white, much salt and pepper from carbonaceous material, Glauconite and possibly heavy minerals, generally well consolidated, no apparent porosity, sub–angular to sub–round, moderately–poorly sorted, commonly calcareous cement, frequently argillaceous, trace dark brown oil stain with faint dull yellow cut and very weak bluish yellow streaming cut.

Shale – cream–white, much mottling to peppered with dark gray carbonaceous material and microcrystalline disseminated Pyrite, moderately soft, slightly–moderately calcareous.

2950–2965 Shale – cream–grayish tan–light to medium gray, moderately firm–moderately soft, sub–platy in part, some smooth striated surfaces, slightly–moderately calcareous, highly Pyritic, some med–dark gray carbonaceous material.

2965–3000 Limy Dolomite – generally tan, frequently grayish brown, cryptocrystalline–microcrystalline, generally firm, occasionally moderately hard and brittle, dense, some Pyrite and carbonaceous material, slightly argillaceous in part, no stain, yellow mineral fluorescence in part, weak bluish yellow milky cut.

Some Shale as above.

3000–3050 Limestone–Dolomitic Limestone – buff–tan, occasionally medium to dark brown–grayish brown, cryptocrystalline–microcrystalline, moderately soft, frequently firm, argillaceous in part, highly carbonaceous in part, some laminae, some Pyrite, no stain, dull yellow mineral fluorescence in part, very weak bluish yellow milky cut.

Some Shale as above.

3050–3100 Limestone–Dolomitic Limestone as above.

Siltstone grading to very fine Sandstone, clear-white-light gray, generally well consolidated, no apparent porosity, some specks of carbonaceous material, trace Glauconite, frequently pyritic, calcareous cement in part, argillaceous in part, Sandstone, sub-angular, moderately sorted, no stain or fluorescence, trace very weak bluish yellow streaming cut.

Some Shale - cream-light gray, moderately firm-moderately soft, slightly-moderately calcareous, commonly pyritic, some Siltstone and carbonaceous material.

3100-3150 Siltstone with some very fine Sandstone as above, trace pinpoint dark brown oil stain, with dull yellow fluorescence and very weak bluish yellow milky cut, no apparent porosity.

Shale as above.

3150-3200 Shale - light gray, moderately-highly calcareous, silty in part, slightly peppered with carbonaceous, frequently microcrystalline disseminated Pyrite.

Limestone - light-medium brown, frequently grayish brown-tan, commonly mottled, firm-moderately firm, cryptocrystalline-microcrystalline, dense, frequently pyritic, argillaceous in part, NSFOC.

Some Siltstone as above, no show.

3200-3250 Limestone - buff-tan-light brown, cryptocrystalline-microcrystalline, moderately firm, argillaceous in part, some dark gray carbonaceous material, frequently microcrystalline disseminated Pyrite, dense.

3250-3300 Limestone - generally as above, some white-orangish brown.

Dolomite - tan-grayish tan, cryptocrystalline, moderately firm, frequently argillaceous, frequently pyritic.

3300-3350 Limestone - white-cream, slightly buff in part, cryptocrystalline, frequently peppered-streaked with dark gray carbonaceous material and Pyrite, moderately soft, dense, some Limestone as above.

Some Dolomite as above.

- 3350-3400 Limestone - generally buff-tan, cryptocrystalline, generally argillaceous, moderately soft, trace dark gray carbonaceous material, trace Pyrite.
- Shale - light to medium gray, brownish gray, moderately firm, slightly-moderately calcareous, slightly carbonaceous in part, trace Pyrite, dense.
- 3400-3450 Limestone and Shale as above.
- Some Shale - tan-medium to dark brown, mottled in part, slightly calcareous, moderately soft, highly carbonaceous.
- 3450-3470 Shale - light gray-greenish gray-cream, moderately firm-moderately soft, slightly-moderately calcareous, slightly carbonaceous in part, some Pyrite.
- Siltstone ranging to very fine Sandstone, clear-white, generally much calcareous cement, frequently peppered with carbonaceous material, some Glauconite, argillaceous in part, generally well consolidated, moderately firm, no apparent porosity, NSFOC, some Pyrite.
- Some Limestone-Dolomitic Limestone - tan-orangish brown, cryptocrystalline-occasionally microcrystalline, firm-moderately firm, dense, some carbonaceous material.
- 3470-3490 Sandstone - clear-milky, very fine grained, generally unconsolidated-friable, probably good intergranular porosity, some calcareous cement, sub-angular to sub-round, generally well sorted, some pinpoint spotty dark brown oil stain, dull yellow fluorescence, fair immediate bluish-yellow milky cut, some dark gray carbonaceous material.
- 3490-3500 Shale - cream-light gray-brownish gray, moderately firm, slightly-moderately calcareous, dark brown-dark gray carbonaceous material, commonly pyritic, commonly smooth striated surfaces.
- Sandstone as above, grading to Siltstone, some stain and cut as above.
- 3500-3550 Shale - light gray-grayish tan, occasionally cream-slightly green, moderately firm, slightly calcareous, occasionally speck of dark brown-black carbonaceous material.
- Some Siltstone as above.

- 3550-3600 Shale - tan-light to medium gray, slightly-moderately calcareous, generally moderately firm, occasionally cream-white and soft, trace microcrystalline disseminated Pyrite.
- Sandstone - very fine grained, ranging to Siltstone in part, clear-milky-occasionally white, some calcareous cement, generally unconsolidated-friable, assume good intergranular porosity, sub-angular to sub-round, moderately well sorted, generally no show, some dark brown-black dark oil stain, trace dark brown spotty oil stain, with dull yellow fluorescence and very weak dull yellow cut. Very poor show in general.
- 3600-3650 Sandstone ranging to Siltstone as above, with even less show.
- Shale - medium-dark brown, moderately firm, moderately calcareous, moderately carbonaceous.
- Argillaceous Limestone - buff-tan, cryptocrystalline, moderately firm-moderately soft, dense.
- 3650-3700 Dolomite - medium-dark brown to grayish brown, cryptocrystalline, moderately firm, dense, argillaceous in part, some Pyrite, moderately carbonaceous.
- Argillaceous Limestone - buff-tan, cryptocrystalline, generally soft, earthy in part, mottled in part, some silt, pyritic.
- 3700-3750 Dolomite and Argillaceous Limestone, as above.
- Shale - light-medium gray, occasionally brown gray, moderately firm, moderately calcareous, commonly microcrystalline disseminated Pyrite.
- 3750-3795 Shale - light gray-slightly greenish tinge, moderately-highly calcareous, moderately firm, commonly pyritic.
- 3795-3800 Shale - generally pale green, frequently light gray-cream-brown gray, silty in part, moderately-highly calcareous, frequently pyritic, moderately firm-moderately soft, commonly medium-dark gray carbonaceous material.
- Some Siltstone - clear-white, moderately firm, moderately calcareous cement, well consolidated, dense, frequently pyritic, argillaceous in part, NSFOC.

- 3800-3825 Sandstone, very fine grained ranging to Siltstone in part, generally clear, occasionally milky, extremely fine grained Sandstone, generally loosely consolidated-friable, some calcareous cement, sub-angular to sub-round, moderately well sorted, assume fair-good porosity, common dark brown oil stain, very poor dull yellow fluorescence and very weak faint bluish yellow milky cut, assume mostly dead oil due to very poor cut.
- Some pale green-cream Shale, as above.
- 3825-3830 Shale - pale green-cream as above.
- Some Sandstone - generally as above, very fine grained, more consolidated and less porosity, frequent pinpoint dark brown dead oil stain, no fluorescence or cut.
- 3830-3860 Limestone-Dolomitic Limestone - buff-tan, frequently cream-light brown, cryptocrystalline, occasionally microcrystalline, generally moderately firm, frequently hard and brittle to soft and argillaceous in part, trace Pyrite, trace poor intercrystalline porosity with spotty dark brown oil stan, bright yellow fluorescence and fair yellow streaming cut. Possibly very fine pellets or unidentifiable fossils.
- 3860-3890 Limestone-Dolomitic Limestone as above, no show, some dark brown carbonaceous material.
- Shale - light gray-brown gray, slightly green tinge, moderately firm, slightly-moderately calcareous, slightly pyritic in part, slightly carbonaceous in part.
- Some Siltstone - clear-milky, occasionally white, some calcareous cement, moderately firm, pyritic in part, NSFOC, frequently argillaceous, slightly carbonaceous in part.
- 3890-3920 Shale - light gray-slightly green tinge, occasionally cream, moderately firm-moderately soft in part, generally slightly calcareous, occasionally moderately calcareous, trace Pyrite.
- Siltstone-occasionally grades to very fine Sandstone - clear-white, frequently slightly green, frequently argillaceous, some Glauconite, generally firm, well consolidated, moderately calcareous cement. Sandstone moderately well-sorted, sub-round to sub-angular, no apparent porosity, NSFOC.

- 3920-3950 Shale – generally as above, but mostly light-medium gray, less green color, more Pyrite and medium gray carbonaceous material.
- Siltstone – generally as above, some specks of carbonaceous material, Glauconite and Pyrite.
- 3950-3980 Limestone – occasionally Dolomite Limestone, mostly buff-tan, occasionally medium brown-amber brown, generally cryptocrystalline, moderately firm-moderately soft, argillaceous in part, dense, trace dark brown carbonaceous material.
- 3980-4010 Shale – generally light gray, occasionally cream-brown gray, slightly-moderately calcareous, moderately firm-soft, some specks of dark brown-black carbonaceous material, some microcrystalline disseminated Pyrite.
- Siltstone – clear-occasionally cream-light gray, moderately firm, moderately well consolidated, argillaceous in part, moderately calcareous, some specks of carbonaceous material, some Pyrite, trace dark brown oil stain, no fluorescence or cut, assume dead oil.
- Some Limestone as above.
- 4010-4040 Shale and Siltstone as above, no dead oil, some loose very fine Quartz grains, no show.
- Limestone as above.
- 4040-4070 Shale – light-medium gray-brown gray as above.
- Some Siltstone grading occasionally to very fine grained Sandstone, which is moderately well consolidated, slightly-moderately calcareous, argillaceous in part, sub-angular to sub-round, moderately well sorted, no apparent porosity, trace dark brown oil stain, with dull yellow fluorescence and very weak bluish yellow milky cut, very poor show.
- Some Dolomite – dark brown-amber brown, cryptocrystalline, firm-moderately firm, moderately carbonaceous, dense.
- 4070-4130 Shale – light-medium gray, occasionally brownish gray-cream, moderately firm-moderately soft, slightly calcareous, slightly-moderately carbonaceous, frequently microcrystalline Pyrite, mottled in part.

Siltstone - clear-white-light gray-slightly tan, moderately firm, generally well consolidated, moderately calcareous, argillaceous in part, NSFOC.

4130-4160

Sandstone - very fine grained, abundant dark brown-black oil stain on clear-milky grains, moderately well consolidated - slightly friable in part, slightly calcareous, hard to determine porosity due to staining, assume porosity is fair, sub-angular to sub-round, moderately well sorted, fairly even abundant dark brown-black oil stain, weak dull yellow fluorescence in part, fair immediate milky-streaming bluish yellow cut. Best show so far in this well.

Some Shale as above.

4160-4190

Shale, light gray, occasionally cream-medium gray, moderately soft, moderately calcareous, some specks of carbonaceous material, frequently microcrystalline disseminated Pyrite.

Siltstone - clear-slightly white-slightly tan in part, well consolidated, moderately firm, dense, moderately calcareous, argillaceous in part, commonly pyritic, some specks of carbonaceous material, NSFOC.

4190-4200

Sandstone - clear-milky, very fine-fine grained, moderately unconsolidated-friable in part, slightly calcareous cement in part, sub-angular to sub-round, moderately well sorted, abundant fairly even dark brown-occasionally black oil stain, tarry in part, with dull yellow fluorescence in part and fair immediate milky-slow streaming bluish yellow cut. Appears to be fair-good intergranular porosity. Stain not as strong as 4130'-4160' interval, but porosity probably is better.

4200-4220

Sandstone - clear-milky, very fine-fine grained, generally as above, but frequently grain clusters with uneven stain and fairly well consolidated, more black oil stain, which may be dead oil, frequently Sandstone looks less porous than above, commonly pyritic. Still oil stain, fluorescence and cut is fair-good.

Shale - tan-light-medium brown, moderately calcareous, moderately soft, slightly-moderately carbonaceous.

4220-4250

Shale - light-medium gray, occasionally cream-tan, moderately calcareous, frequently carbonaceous, moderately soft, commonly pyritic.

- Limestone - buff-tan-orangish tan, cryptocrystalline-microcrystalline, moderately firm-moderately soft, commonly argillaceous, dense.
- 4250-4280 Shale - cream-light gray, frequently medium brown, moderately firm-moderately soft, moderately calcareous, occasionally speck of carbonaceous material.
- 4280-4310 Shale - medium-dark brown, moderately firm, moderately calcareous, moderately-highly carbonaceous.
- 4310-4340 Shale - medium-dark gray to occasionally black, moderately firm, hard and brittle in part, slightly-moderately calcareous, abundant carbonaceous material, trace of Pyrite, trace buff-soft to earthy Bentonitic Shale.
- 4340-4370 Shale as above.
- Limestone-Dolomite Limestone - buff-tan-orangish brown, firm-moderately firm, brittle in part, dense, cryptocrystalline-microcrystalline, argillaceous in part, frequently mottled.
- 4370-4400 Siltstone - white-milky-slightly greenish tinge, occasionally ranging to very fine Sandstone, well consolidated, frequently argillaceous, poorly sorted, firm, some Glauconite, moderately-highly calcareous, NSFOC, frequently peppered with carbonaceous material, pyritic in part.
- Shale - cream-light gray, frequently slightly greenish tinge, moderately soft, moderately calcareous, silty in part, frequently dark gray carbonaceous material, some Pyrite.
- 4400-4430 Shale - light-medium gray, frequent brownish gray, moderately soft, slightly-moderately calcareous, frequently specks of dark brown-black carbonaceous material, some Pyrite.
- Siltstone - clear-white-light gray in part, slightly-moderately calcareous cement, argillaceous in part, moderately well consolidated, moderately firm, frequent specks of carbonaceous material, some Glauconite, frequent Pyrite.
- 4430-4450 Shale as above, plus Shale, dark brown, generally firm-hard and slightly brittle, slightly-moderately calcareous, highly carbonaceous-slightly petroliferous, dull yellow fluorescence in part, very weak bluish yellow milky cut in part.

Limestone-Dolomite Limestone - buff-tan-orangish tan, cryptocrystalline-microcrystalline, moderately firm-moderately soft, moderately argillaceous in part, moderately carbonaceous in part, trace of ostracods.

4450-4460 Limestone-Argillaceous Limestone, buff, tan, moderately soft, frequently dark brown carbonaceous material, generally dense, trace pinpoint vugs and intercrystalline porosity, trace dark brown dead oil stain with very weak bluish milky cut, frequent ostracods, trace pellets.

Some Sandstone - very fine grained commonly ranging to Siltstone, clear-white in part, moderately unconsolidated, sub-angular to sub-round, argillaceous in part, some calcareous cement, moderately well sorted, hard to see porosity due to very fine grained nature of Sandstone, assume fair-good, NSFOC.

4460-4490 Limy Dolomite - tan-medium brown, generally microcrystalline, moderately firm-moderately soft, trace microcrystalline porosity, with dark brown dead oil stain, dull yellow fluorescence and very weak faint slow milky cut, argillaceous in part.

Shale - light-medium gray, moderately soft, moderately calcareous, some carbonaceous material, frequently microcrystalline Pyrite.

4490-4550 Shale - light-medium gray, trace faint green, frequently cream, frequently specked or streaked with carbonaceous material and/or Pyrite, moderately calcareous, silty in part.

Siltstone - clear-white, occasionally light gray, frequently argillaceous, moderately calcareous, some specks of carbonaceous material, NSFOC. Trace of Glauconite.

4550-4580 Shale - light gray-slightly green tinge-frequently cream as above.

Siltstone as above.

Limestone - orangish brown-occasionally medium brown-tan, cryptocrystalline-microcrystalline, moderately soft-moderately firm, argillaceous in part, dense, trace Pyrite.

4580-4610 Shale - light gray-cream, slightly-moderately calcareous, moderately soft, some dark gray carbonaceous material in part, trace of Pyrite.

Some Siltstone – clear–occasionally light gray, moderately well consolidated, moderately calcareous, frequently argillaceous, some specks of carbonaceous material, occasionally pyritic, NSFOC.

4610–4640 Shale – medium–dark brown, occasionally black, frequently a bronze cast, moderately calcareous, moderately firm, occasionally moderately hard and brittle, highly carbonaceous, occasionally looks petroliferous.

Limestone–Dolomite Limestone – tan–orangish tan–orangish brown, generally cryptocrystalline, firm–moderately firm, dense, trace Chert – orange, hard, amorphous.

4640–4655 Sandstone – generally clear, very fine grained, moderately unconsolidated—friable, sub–angular to sub–round, moderately well sorted, slightly calcareous in part, frequently specked with carbonaceous material and/or intraclast fragments, some Pyrite, fair–good intergranular porosity, faint light brown oil stain in part, occasionally dark brown–black dead oil stain, bright yellow mineral fluorescence, very weak slow bluish–yellow milky cut when wet, dried sample gives weak–fair bluish yellow streaming cut. Fair show overall.

4655–4670 Sandstone as above.

Dolomite–Limy Dolomite – tan, light–medium brown, microcrystalline–cryptocrystalline, moderately firm–moderately soft in part, moderately argillaceous in part, trace of carbonaceous material.

4670–4700 Shale – light–medium gray, frequently brownish gray–cream, moderately soft, slightly–moderately calcareous, frequently microcrystalline Pyrite, some carbonaceous material.

Dolomite–Limy Dolomite as above.

Some Siltstone – clear–white, occasionally light gray, moderately calcareous cement, moderately well consolidated, moderately firm, argillaceous in part, some specks of carbonaceous material, frequently pyritic.

4700–4710 Sandstone – very fine grained commonly ranging to Siltstone, generally clear–slightly calcareous cement in part, generally moderately unconsolidated–friable in part, some specks of carbonaceous material, slightly argillaceous in part, appears to have poor porosity, very slight light brown

oil stain in part, bright yellow fluorescence, weak bluish yellow streaming cut.

4710-4730 Shale – generally as above, more brownish gray color, more Pyrite.

Some Siltstone as above.

4730-4760 Shale – light gray, occasionally cream, slightly–moderately calcareous, moderately soft, specks of occasionally carbonaceous material, pyritic.

Siltstone – occasionally ranging to very fine grained Sandstone – clear–light brown, moderately consolidated, moderately firm, some calcareous cement. Generally no apparent porosity, possibly some poor intergranular porosity. Very faint light brown oil stain in part, yellow mineral fluorescence, trace very weak bluish milky cut. Very poor show, fine grained and tight.

4760-4790 Shale – light gray–frequently cream, moderately soft–soft, frequently specks and/or streaks of carbonaceous material, some smooth striated surfaces, Pyrite in part, slightly–moderately calcareous.

Siltstone – light gray–white–clear, moderately calcareous, moderately argillaceous, generally poorly sorted, well consolidated, specks of carbonaceous material, some Pyrite, NSFOC.

4790-4810 Argillaceous Limestone – tan–medium to dark brown, occasionally grayish brown, cryptocrystalline–microcrystalline, firm–moderately soft, generally moderately–highly carbonaceous.

Sandstone – very fine grained, generally clear, moderately unconsolidated, slightly friable, sub–angular to sub–round, moderately well sorted, fair–good intergranular porosity, slightly calcareous in part, some carbonaceous material. Very faint light brown oil stain in part, occasionally light brown pinpoint oil stain, bright yellow fluorescence, and weak–fair bluish–yellow streaming–milky cut. Fair show with likely good reservoir.

- 4810-4820 Shale - light gray-cream as above.
- Sandstone as above, with similar show, occasionally isolated fine sized Quartz grains, sub-angular to sub-round.
- 4820-4850 Shale - medium-dark brown to slightly black in part, slightly-moderately calcareous, moderately firm-moderately soft, moderately-highly carbonaceous, looks petroliferous in part, but NSFOC, also much light-medium gray Shale as above.
- 4850-4880 Shale - light-medium gray, brownish gray-cream in part, moderately firm-moderately soft, moderately-highly calcareous, frequently specks of carbonaceous material, generally microcrystalline disseminated Pyrite.
- Siltstone - light gray-clear in part, generally highly argillaceous, moderately well consolidated, firm-moderately firm, frequently specks carbonaceous material, NSFOC, moderately-highly calcareous, trace Glauconite.
- 4880-4910 Shale as above.
- Limy Dolomite-Dolomite - tan-medium brown, occasionally dark brown-grayish brown, cryptocrystalline-microcrystalline, moderately firm, occasionally soft and moderately argillaceous, slightly carbonaceous in part, dense.
- Some Siltstone as above.
- 4910-4940 Limy Dolomite-Dolomite as above, trace ostracods or possibly pellets.
- Shale as above.
- Some Siltstone as above.
- 4940-4970 Shale - medium-dark brown-frequently black, slightly bronze cast in part, moderately firm, sub-blocky in part, moderately-highly calcareous,

moderately-highly carbonaceous, slightly petroliferous in part, some microcrystalline disseminated Pyrite, also much light gray Shale as above.

4970-5000

Shale - generally light gray, occasionally cream, moderately soft-soft and marly, moderately-highly calcareous, microcrystalline Pyrite common, some carbonaceous material.

Some Siltstone as above.

Trace Sandstone - clear-light brown oil stain, very fine grained grading to Siltstone - sub-angular to sub-round, moderately well sorted, some calcareous cement. Fair-good intergranular porosity. Fair spotty-even light-medium brown oil stain in part, some black dead oil, no fluorescence, fair bluish yellow streaming cut. Fair reservoir and show, but since only a trace in samples, may be cavings.

5000-5030

Shale - light-medium gray, frequently brownish gray-cream, moderately soft, moderately-highly calcareous, some specks of carbonaceous material, some Pyrite.

Siltstone - occasionally grading to very fine Sandstone - clear-white, some specks of carbonaceous material, moderately calcareous, generally poorly sorted, frequently argillaceous, Sandstone is sub-angular to sub-round, moderately well consolidated, no apparent porosity, NSFOC.

5030-5060

Shale as above.

Limestone-Argillaceous Limestone - tan, light-medium brown, microcrystalline-cryptocrystalline, generally moderately firm, occasionally moderately soft, slightly carbonaceous in part, dense.

Some Siltstone as above.

5060-5090

Limestone-Argillaceous Limestone as above, occasionally dark brown.

- 5090-5120 Limestone-Argillaceous Limestone as above.
- Siltstone - clear-white-light gray, moderately calcareous, moderately well consolidated, frequently argillaceous, some specks of carbonaceous material, NSFOC.
- Trace of very fine grained Sandstone w/fair show, probably cavings.
- Some Shale - white-light gray, moderately-highly calcareous, frequently peppered or streaked with medium gray-medium brown carbonaceous material, moderately soft.
- 5120-5150 Shale - light-medium gray, occasionally cream, moderately calcareous, moderately soft, some very small specks of dark brown carbonaceous material.
- 5150-5180 Shale - metallic silver gray, black slightly bronze cast in part, moderately firm-moderately soft, slightly-moderately calcareous, highly carbonaceous, sub-platy to sub-blocky in part.
- 5180-5210 Limy Dolomite-Dolomite - medium brown-occasionally orangish brown, cryptocrystalline occasionally microcrystalline, moderately firm, dense, slightly argillaceous in part.
- Limestone-Argillaceous Limestone - buff-tan-grayish tan in part, generally microcrystalline, frequently moderately argillaceous, generally moderately soft, occasionally mottled, some carbonaceous material in part.
- Shale as above.
- 5210-5240 Shale - light-medium gray, moderately-highly calcareous, moderately firm-moderately soft, much microcrystalline disseminated Pyrite.

Siltstone – clear–white, frequently light gray, generally well consolidated, moderately calcareous, argillaceous in part, some specks of carbonaceous material, commonly pyritic.

Some Limy Dolomite–Dolomite and Limestone–Argillaceous Limestone as above.

5240–5270 Shale – black with bronze cast to light–medium silver metallic gray, moderately firm–moderately soft, slightly–moderately calcareous, common microcrystalline disseminated Pyrite in black Shale.
Black Shale is highly carbonaceous and slightly petroliferous in part.

5270–5300 Mostly Shale as above, some Shale light gray–cream color, generally soft, moderately–highly calcareous.

5300–5330 Shale –mostly light gray–cream as above, some black.

5330–5360 Siltstone – generally cream–light gray, frequently mottled appearance, generally argillaceous, poorly sorted, moderately calcareous, frequently medium–dark gray, carbonaceous, frequently pyritic, moderately firm–moderately soft.

Shale – cream–light gray, silty in part, moderately calcareous, commonly streaked–peppered with dark gray carbonaceous material, frequently smooth striated surfaces, generally moderately soft.

5360–5390 Limestone–Argillaceous Limestone as 5180–5210 above. Some Limy Dolomite–Dolomite as 5180–5210 above.

Shale and Siltstone as above.

5390–5420 Shale – generally dark gray–grayish black–black, generally slightly bronze sheen, probably from abundant microcrystalline disseminated Pyrite, slightly–moderately calcareous, moderately firm–moderately soft, sub–blocky in part.

Moderately-highly calcareous, NSFOC, abundant Pyrite.

Some Limestone, dark brown, firm-slightly brittle, microcrystalline, dense, commonly dark brown carbonaceous material.

5420-5450 Shale - generally black-grayish black, frequently dark gray, generally bronze sheen primarily from abundant microcrystalline disseminated Pyrite, moderately firm-moderately soft, sub-platy to sub-splintery in part, slightly-moderately calcareous, highly carbonaceous to slightly petroliferous in part, NSFOC.

5450-5465 Shale - generally as above, slightly more black color and more petroliferous, no stain on fluorescence, weak bluish yellow streaming to milky cut.

Some Limestone - medium-dark brown, cryptocrystalline, firm-slightly hard and brittle, trace of Chert, dense, slightly carbonaceous.

5465-5480 Shale - generally as above with similar cut, slightly more dark gray-brownish gray, much Pyrite.

Some Limestone as above.

5480-5510 Argillaceous Limestone-Dolomite Limestone - buff-tan-orangish brown, microcrystalline-cryptocrystalline, moderately firm-soft, slightly carbonaceous in part, dense.

Siltstone - clear-milky-white in part, moderately soft, moderately calcareous, moderately-highly argillaceous, some specks of carbonaceous material, dense.

Some Shale - generally cream-white, occasionally light gray, moderately soft, moderately-highly calcareous, frequently specks or streams of carbonaceous material.

5510-5525

Sandstone - clear-milky-frequently white, generally very fine grained, but ranges from fine grained-silt size, moderately-fairly poorly sorted, sub-angular to sub-round, moderately consolidated-friable in part, generally poor-fair intergranular porosity, slightly calcareous cement, slightly argillaceous in part, much dark brown-black tarry stain, also frequently uneven light brown oil stain, dull yellow fluorescence in part, weak-fair bluish yellow streaming to milky cut, good show but need to validate porosity with E-logs. Moderately well consolidated-slightly friable in part, porosity determination difficult due to tarry material.

5525-5540

Sandstone as above with abundant dark brown-black tarry stain, also much light-medium brown stain, with dull yellow fluorescence in part and weak-fair bluish yellow streaming-milky cut.

Argillaceous Limestone-Dolomite Limestone as above.

Shale and Siltstone as above.

5540-5600

Dolomite-Limy Dolomite - medium-dark brown, occasionally orangish brown, cryptocrystalline-microcrystalline, firm-moderately firm, dense, occasionally inclusions of Shale and dark gray-black carbonaceous material.

Limestone-Argillaceous Limestone - buff-tan-grayish tan, microcrystalline, occasionally cryptocrystalline, moderately firm-moderately soft, frequently argillaceous, some dark gray carbonaceous material.

Siltstone - clear-milky-white, moderately calcareous, generally well consolidated, frequently specks of carbonaceous material, slightly-moderately argillaceous, some black dead oil stain, no fluorescence, very weak bluish yellow milky cut in part, some Glauconite and Pyrite.

Some Shale - white-cream, moderately-highly calcareous, moderately soft, generally peppered-streaked with dark gray carbonaceous material, some Pyrite.

5600-5630

Limestone-Argillaceous Limestone as above.

Shale - light-medium gray, frequently slightly green tinge, occasionally cream-white, moderately-highly calcareous, moderately firm-moderately soft, some dark gray-black carbonaceous material.

Siltstone - clear-milky-white, slightly calcareous cement, generally slightly argillaceous, moderately firm, generally moderately well consolidated, some specks of dark-black carbonaceous material, NSFOC.

5630-5660

Siltstone ranging to very fine Sandstone in part - clear-white-milky in part, moderately calcareous cement commonly argillaceous, moderately well consolidated, sub-angular to sub-round, moderately sorted, no apparent porosity, some dark brown-black carbonaceous material, generally NSFOC, trace pinpoint dark brown oil stain, no fluorescence, trace very weak bluish-yellow milky cut.

Shale - white-cream-light gray in part, moderately-highly calcareous, moderately soft-soft, frequently medium-dark gray, carbonaceous material, some Pyrite, silty in part.

Limestone-Argillaceous Limestone as above.

5660-5690

Sample generally as above, but some medium-dark gray Shale, slightly-moderately calcareous, moderately firm-moderately soft, moderately-highly carbonaceous, frequently pyritic, no show in Siltstone.

5690-5720

Siltstone grading occasionally to very fine grained Sandstone - white-clear-occasionally light gray, moderately firm-moderately soft, moderately well consolidated, moderately calcareous, frequently argillaceous, some carbonaceous material.

Sandstone moderately well consolidated-slightly friable in part, sub-angular to sub-round, slightly argillaceous, slightly calcareous cement, trace dark

brown oil stain, no fluorescence, very weak bluish yellow milky cut, very poor intergranular porosity.

Shale - cream-light gray, moderately soft, moderately-highly calcareous, mottled-streaked with dark gray carbonaceous material, pyritic.

Limestone-Argillaceous Limestone as above.

5720-5750

Shale - black-grayish black, frequently bronze cast, firm-brittle to moderately firm, moderately calcareous-highly calcareous, abundant microcrystalline disseminated Pyrite, highly carbonaceous-petroliferous in part, no stain or fluorescence, some very weak bluish yellow milky cut, some light gray-medium gray Shale.

Some Limestone-Argillaceous Limestone as above.

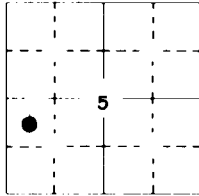
TOTAL DEPTH 5750' DRILLER.

DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

4924 RIMROCK ROAD
BILLINGS, MONTANA 59106
(406) 656-4785

GEOLOGIC WELL LOG



BALCRON OIL 13-5J MONUMENT BUTTE-FEDERAL
1980' FSL 660' FWL, SECTION 5, T 9 S-R 17 E
DUCHESNE COUNTY, UTAH

ELEVATIONS: 5223' GL 5236' KB

SPUD: 9:00 AM (MDT) 8/10/93 (Small air drilling rig)

OUT FROM UNDER SURF. CSG.: 5:30 AM (MDT) 8/27/93
(Surface casing previously set)

DATE DRLG. COMP.: 10:00 PM (MDT) 8/29/93

DATE WELL COMPLETED: 3:00 AM (MDT) 8/31/93

STATUS: CASED FOR OIL COMPLETION ATTEMPT

SURF. CSG.: 256' OF 8 5/8"

PRODUCTION CSG: 5 1/2" TO 5751' KB

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: MOLEN DRILLING CO.

RIG: I

DERRICK: IDELA, 104' MAST (DOUBLE)

DRAWWORKS: EMSCO GB-250T, POWERED BY 2
DETROIT 6-71 300 HP DIESELS

PUMPS: EMSCO D-375 14" STROKE

DRILL PIPE: 4 1/2" OD, 2 1/4" ID, XH-THREAD

COLLARS: BHA 807.06'-445.75' 6" DC & 361.91" HWP

MUD SYSTEM: KCL /WATER TO TD

TOTAL BITS: 2 ROTARY, AIR DRILLED FOR SURFACE CASING

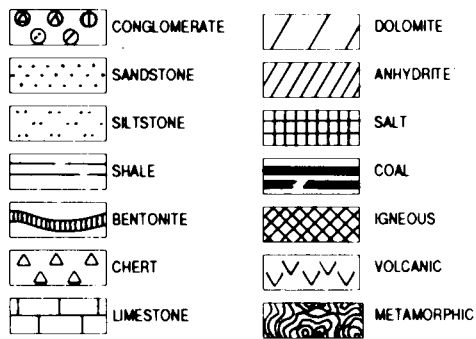
TOTAL DAYS TO LOG POINT: 9 TO COMPL: 11

T.D. DRILLER 5750' LOGGER 5744'

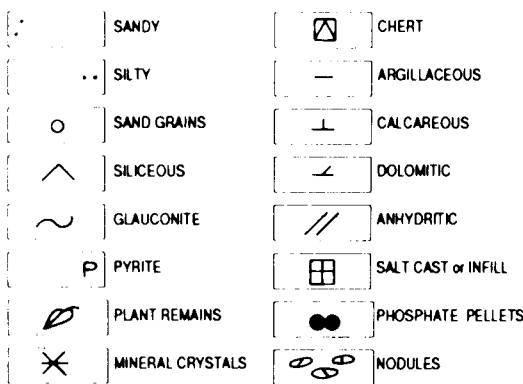
PENETRATION: 282' BELOW CARBONATE MARKER

ROCK TYPE

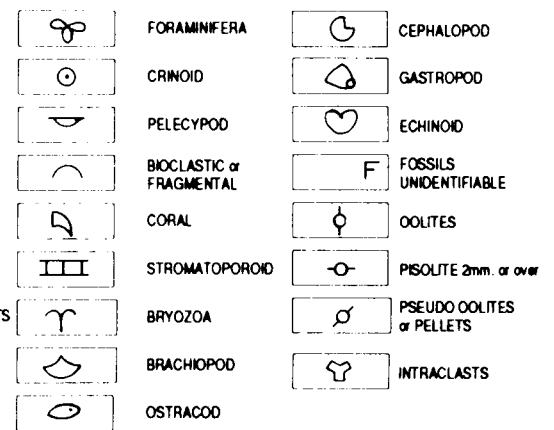
[Consistent with American Stratigraphic Company]



ACCESSORIES



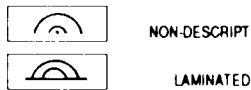
ORGANIC or NON ORGANIC ALLOCHEMS



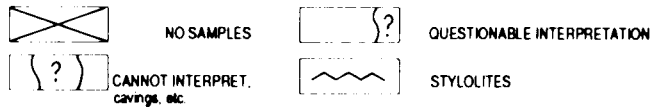
FRAMEWORK ALGAE



NON-FRAMEWORK ALGAE



MISCELLANEOUS



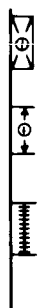
POROSITY TYPES

- X INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL
- Ø INTEROOOLITIC, INTERPELLETOID
- V VUGGY - voids greater than 1/16mm
- P PINPOINT - voids less than 1/16mm
- ~ MOLDIC
- O ORGANIC - bridged, Intrafossil
- F FRACTURE
- e EARTHY - low permeability, crystals less than 1/16mm
- ☐ FENESTRAL - voids from gas bubbles, shrinkage cracks & birdseye texture

OIL STAINS - stain present

- EVEN STAINING, FLOURESCES IN SOLVENT
- SPOTTED STAINING, FLOURESCES IN SOLVENT
- D DEAD, ASPHALTIC, BITUMEN, ETC.
- O QUESTIONABLE, NO FLOURESCENCE IN SOLVENT

EVALUATION LEGEND



WHOLE CORE
DRILL-STEM TEST
PERFORATIONS

DRILLING AND PRODUCTION DATA



CASING SET
NB NEW BIT
RRB RERUN BIT
CB CORE BIT
DS DEVIATION SURVEY
W/B WEIGHT ON BIT

RPM ROTATION (REV/MIN)
PP PUMP PRESSURE
LC LOST CIRCULATION
NR NO RETURNS
TG TRIP GAS
CG CONNECTION GAS

MUD DATA

V VISCOSITY
W WEIGHT IN lbs/gal
WL FILTRATE IN cc
FC FILTER CAKE
CL CHLORIDE CONTENT (ppm)
Rm MUD RESISTIVITY (Ω)
Rmf MUD FILTRATE RESISTIVITY (Ω)

ELECTRIC LOG GAMMA RAY / CALIPER

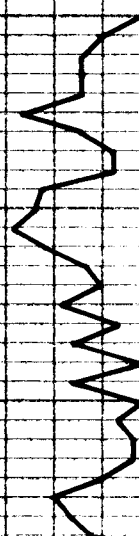
INTERPRETED LITHOLOGY AND DEPTH

DRILLING PENETRATION RATE (MIN / FT)

CASING & PERFORATIONS
CORE & DST
OIL SHOWS
POROSITY (%)

INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT & LAGGED BY RIG CREWS. GENERALLY TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS

0 1 2 3 4 5

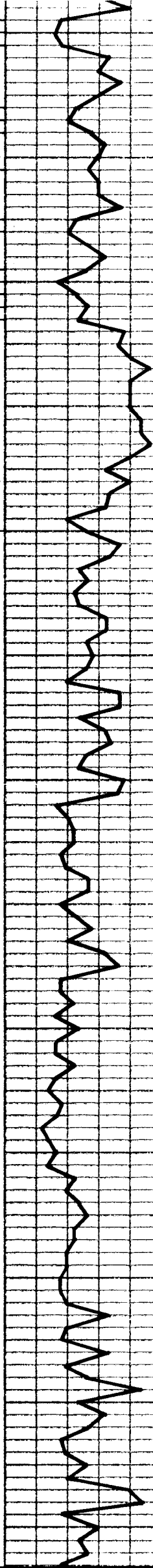


SAMPLES EXAMINED FROM 1300' - TOTAL DEPTH. SEE SAMPLE DESCRIPTIONS IN REPORT FOR DETAILS.

E-LOG TOPS

1200
1300

0



1400

GREEN RIVER

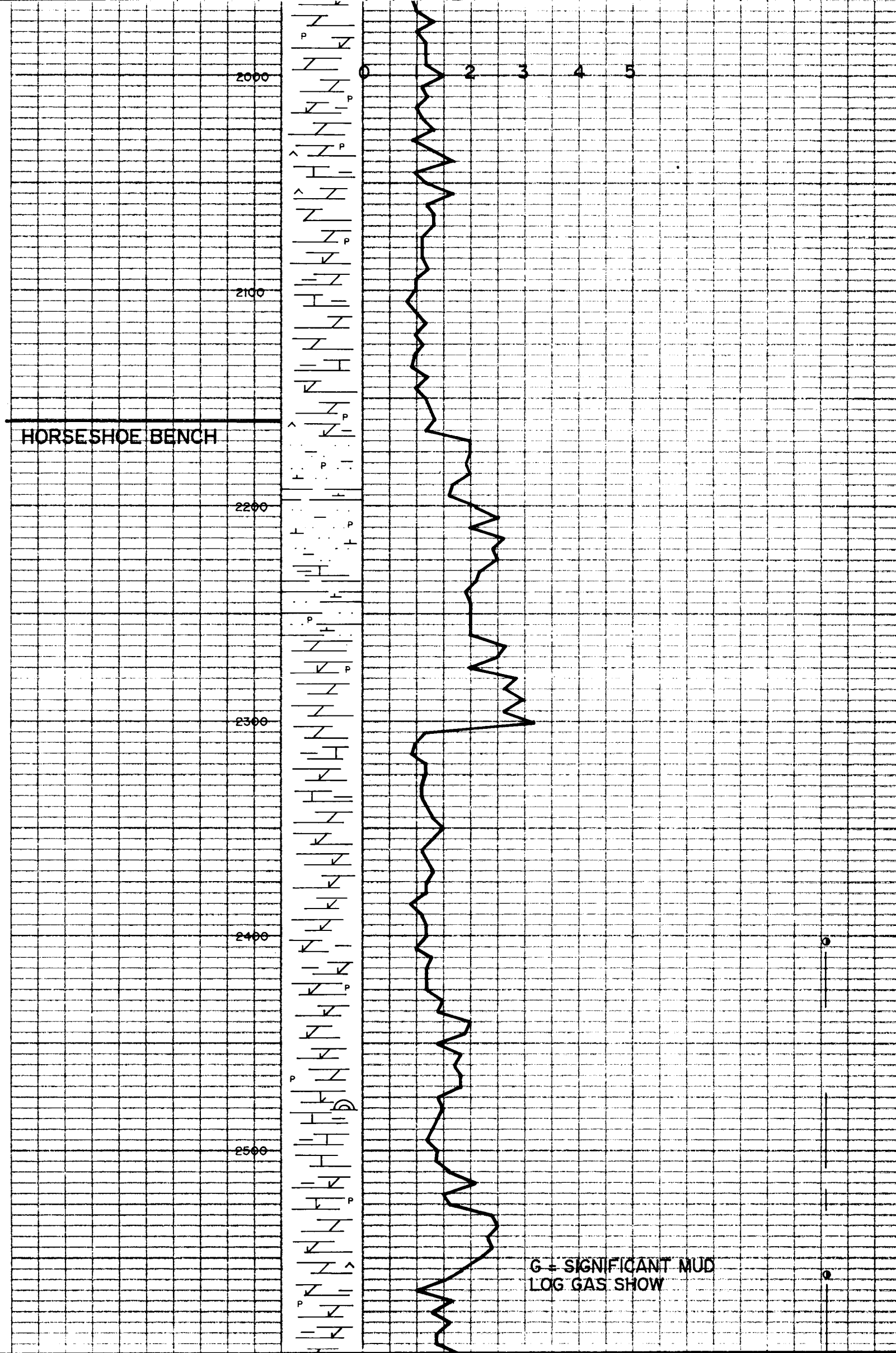
1500

1600

1700

1800

1900



2600

2700

2800

2900

3000

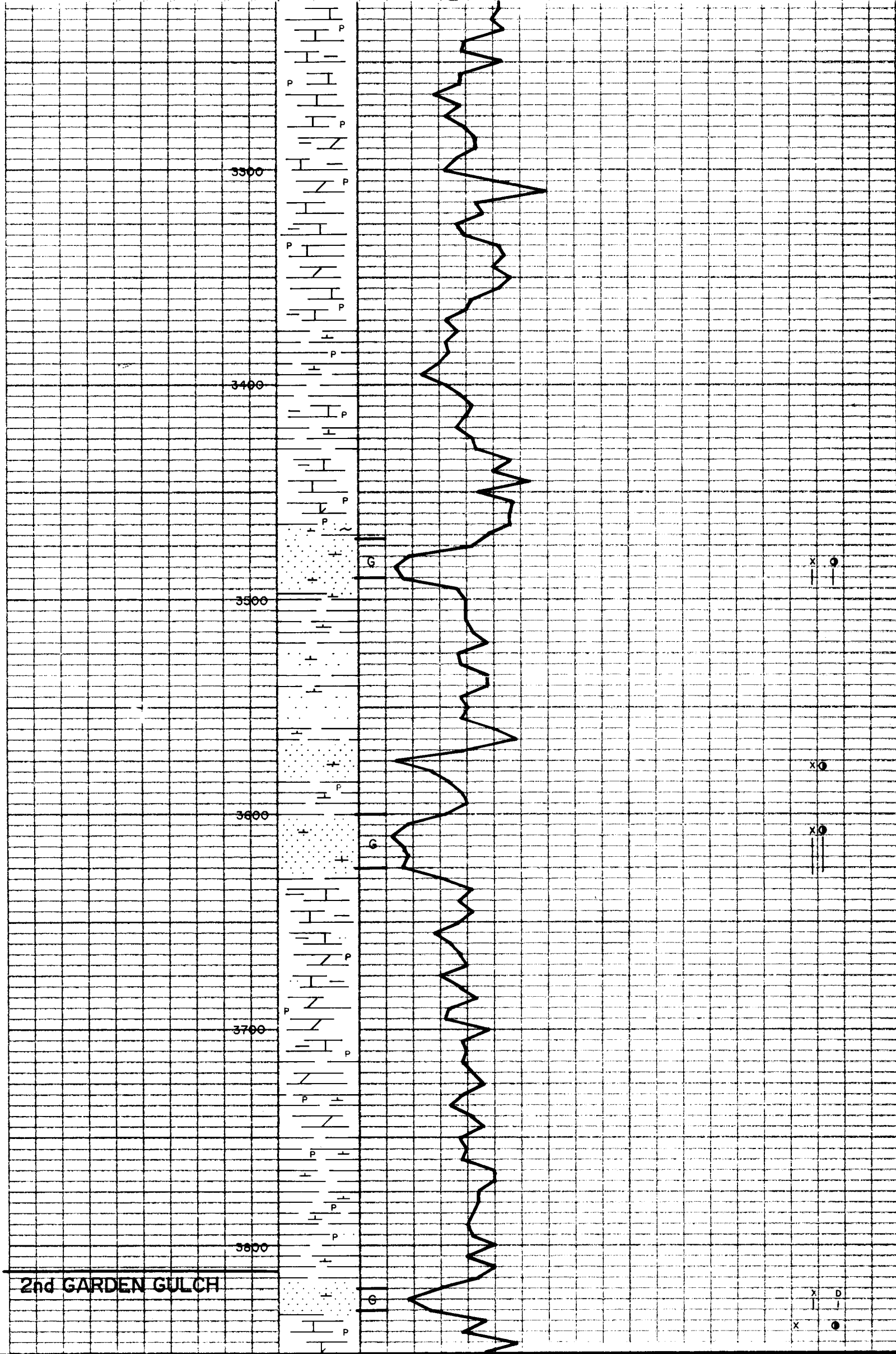
3100

3200

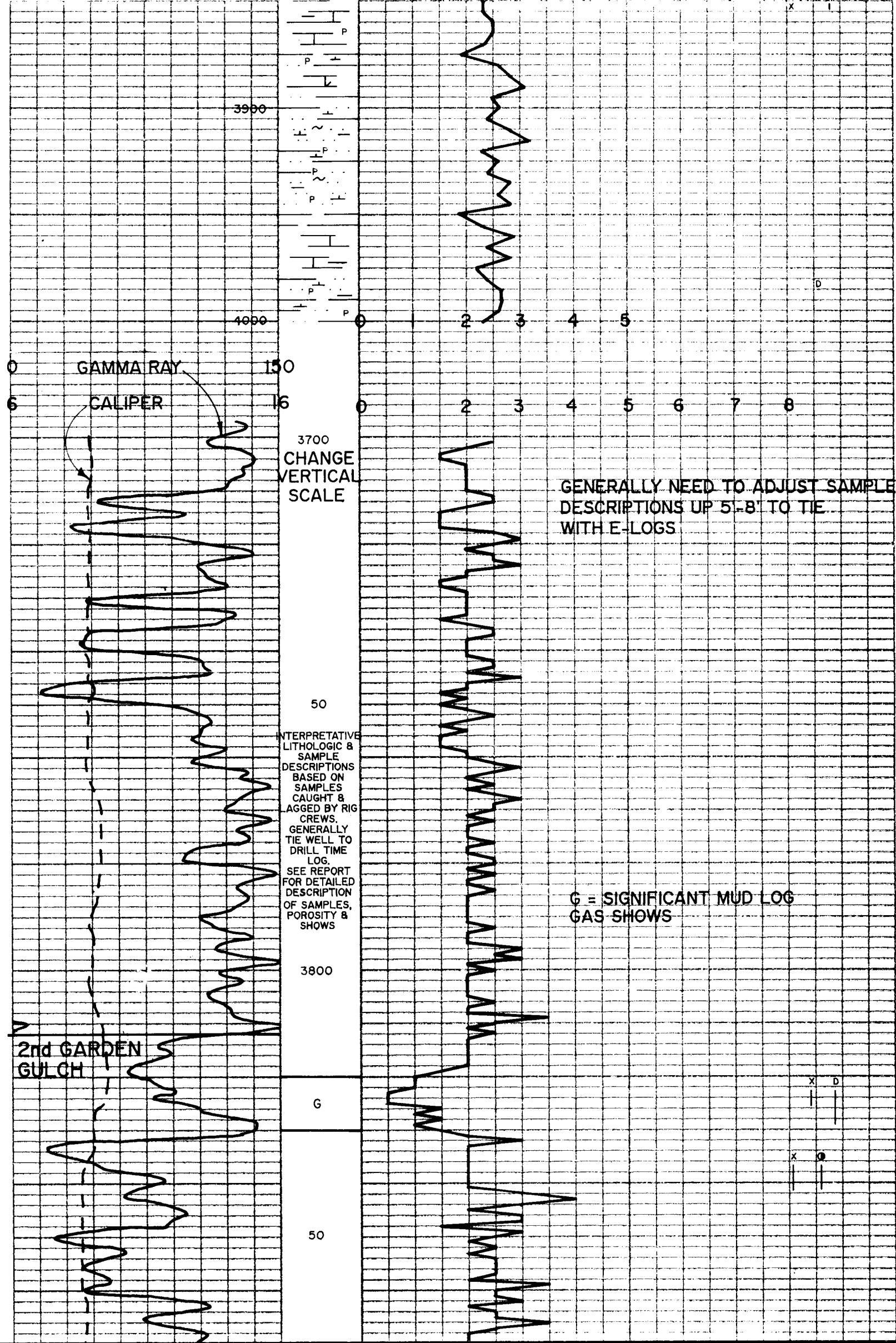
TOH AT
2712' FOR
BIT

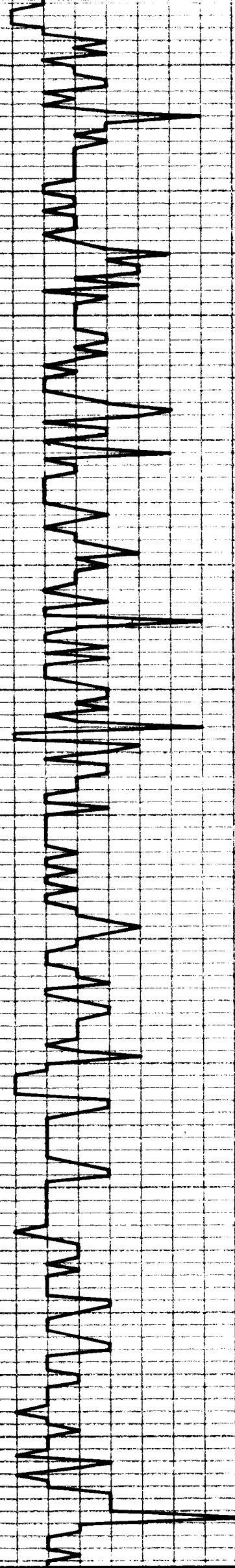
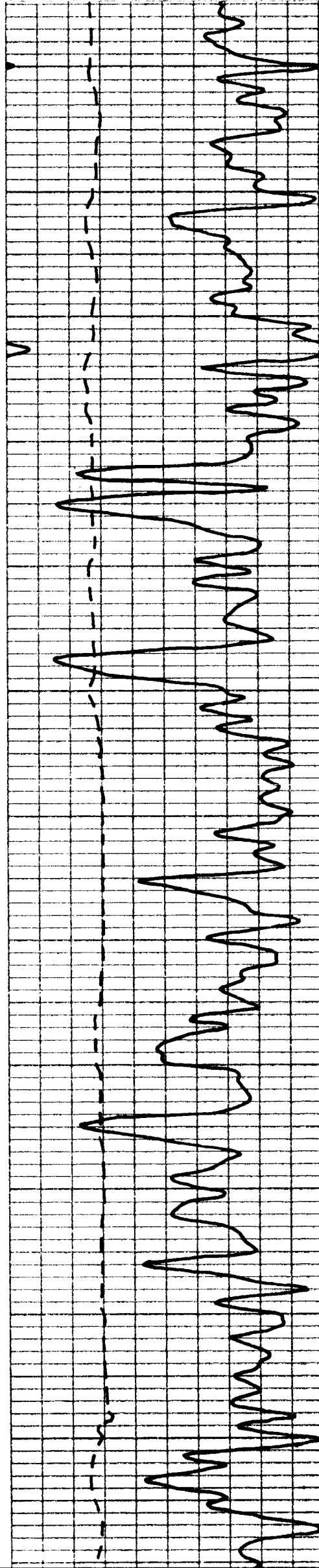
SHUTIN BOP'S AT 2934'
DUE TO GAS FLOW

0 2 3 4 5



2nd GARDEN GULCH





x o
| |

x o
| |

50

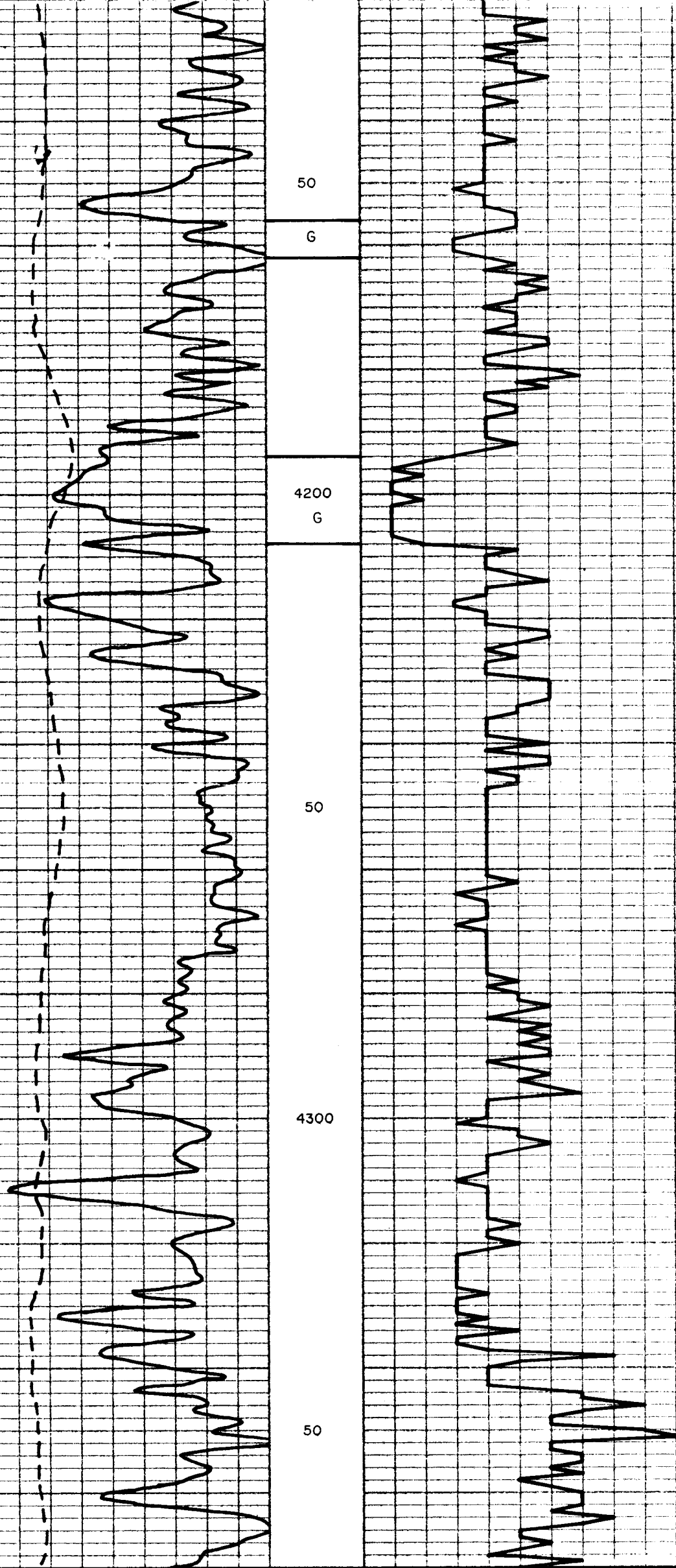
G

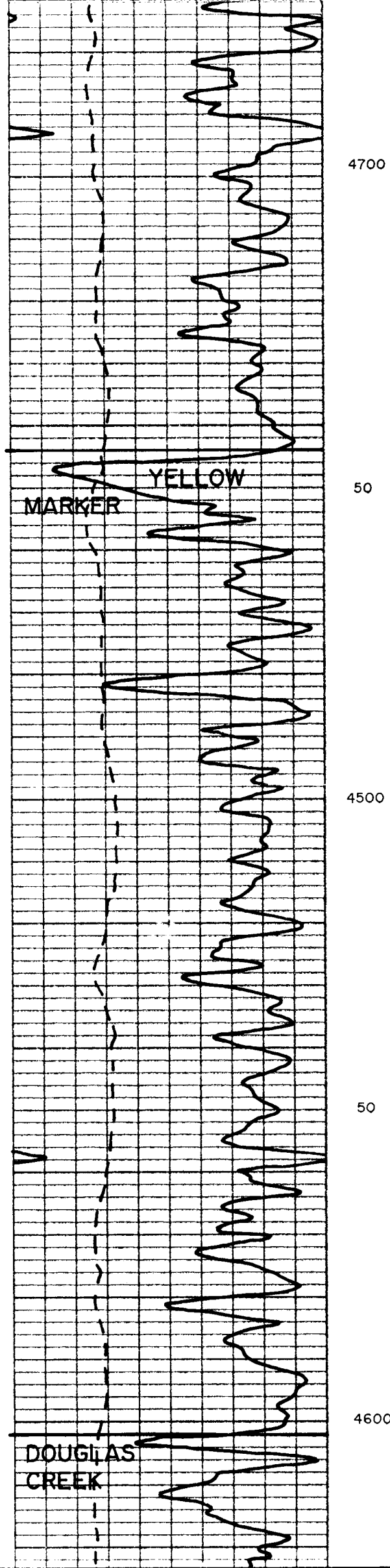
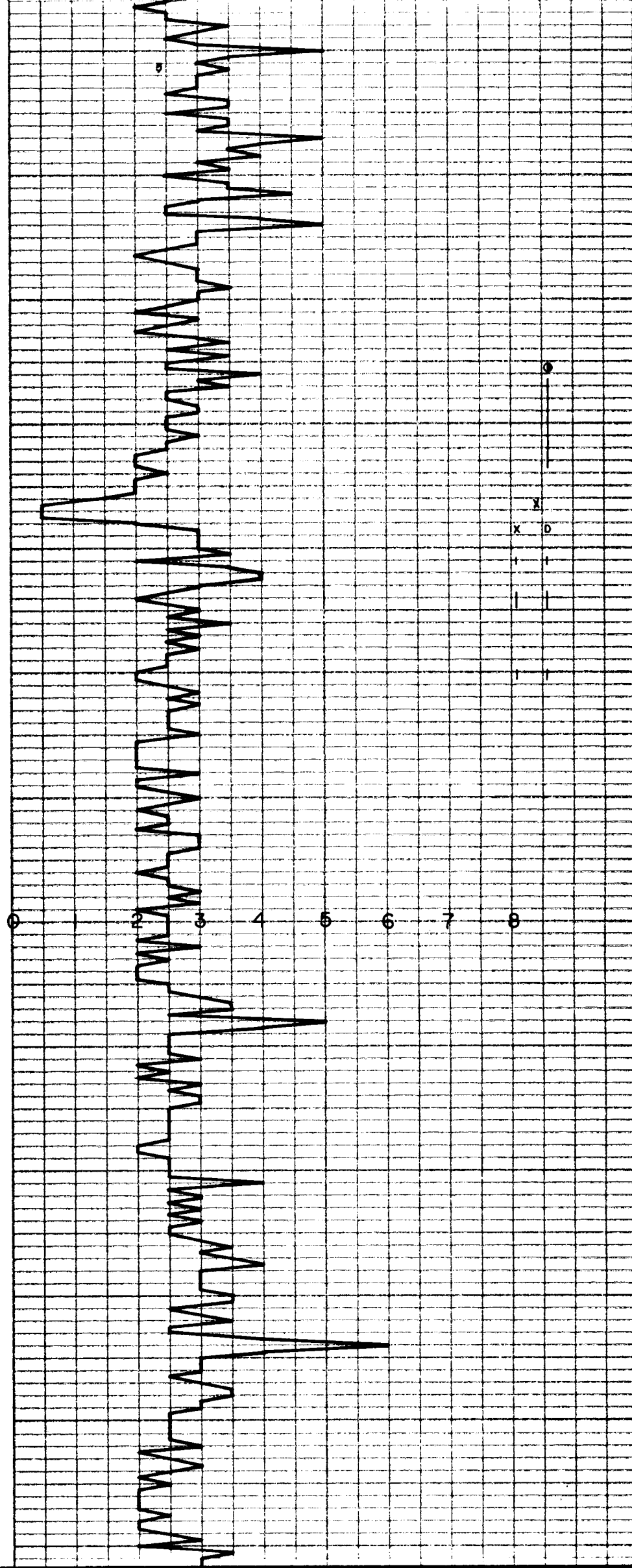
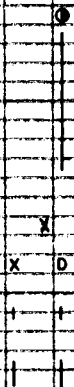
4200
G

50

4300

50





X
—
—

X
—
—

X
—
—
—
—

X
—
—
—

G
50

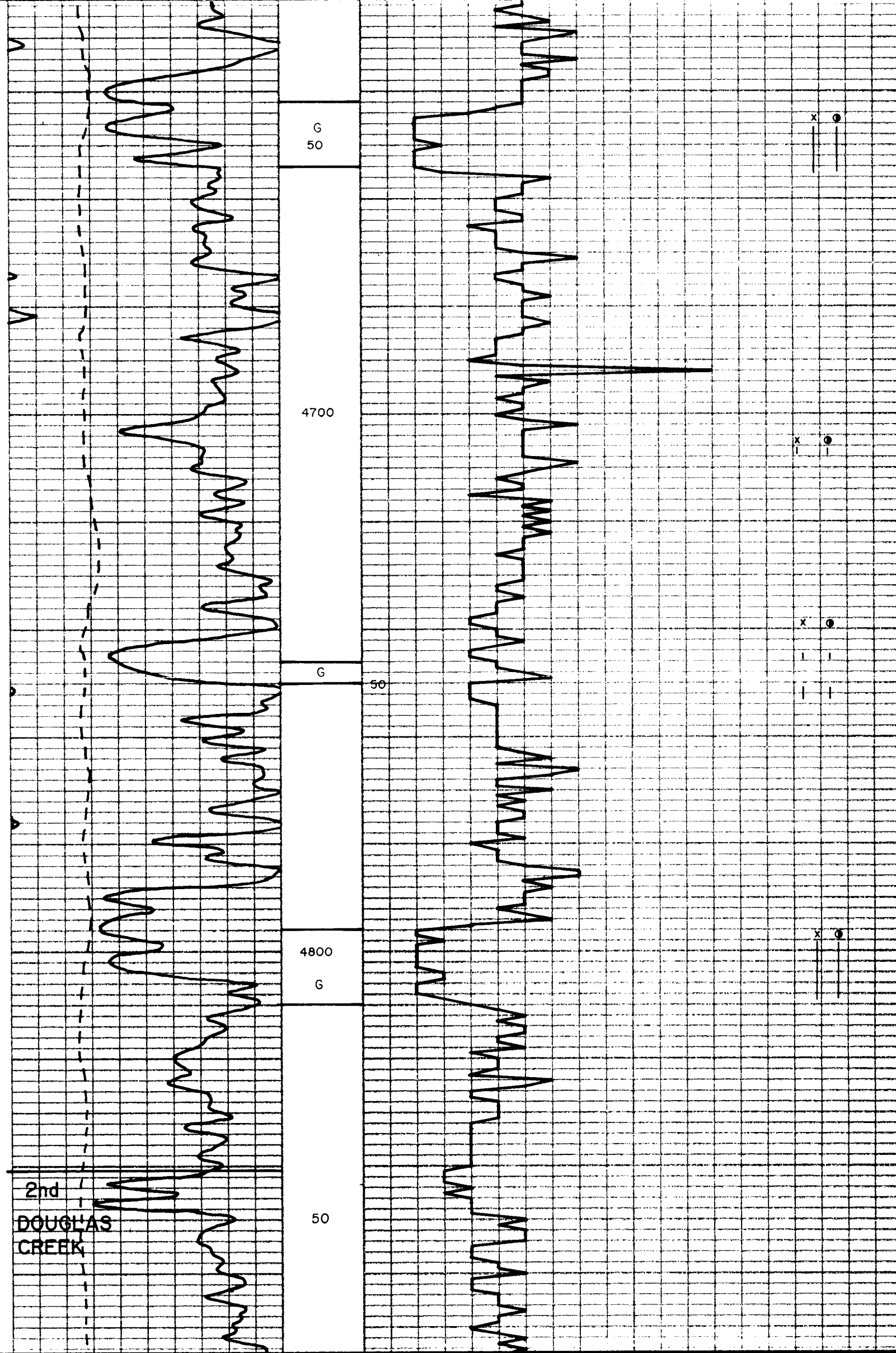
4700

G
50

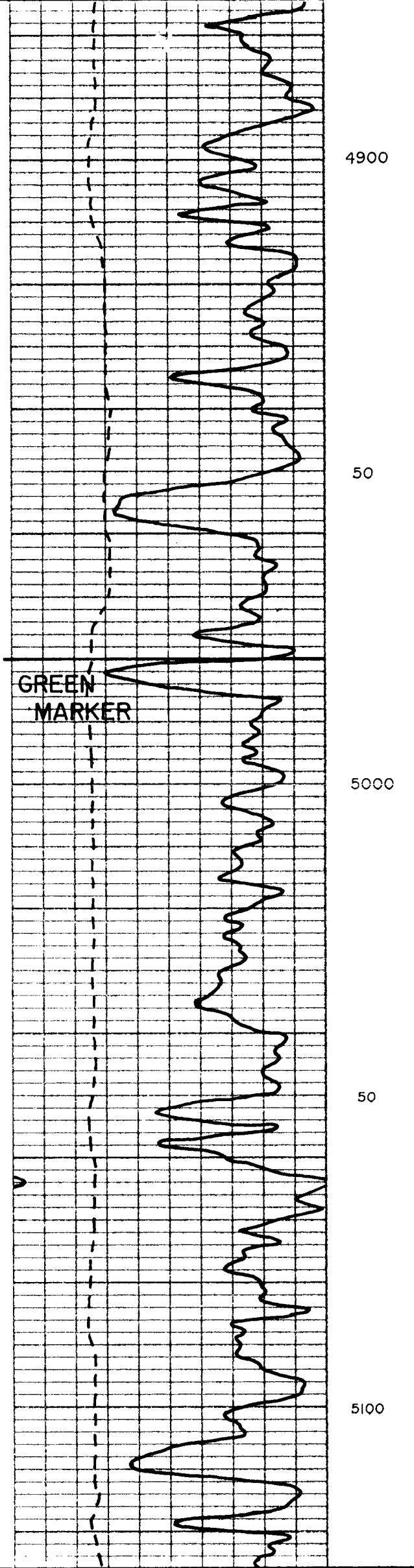
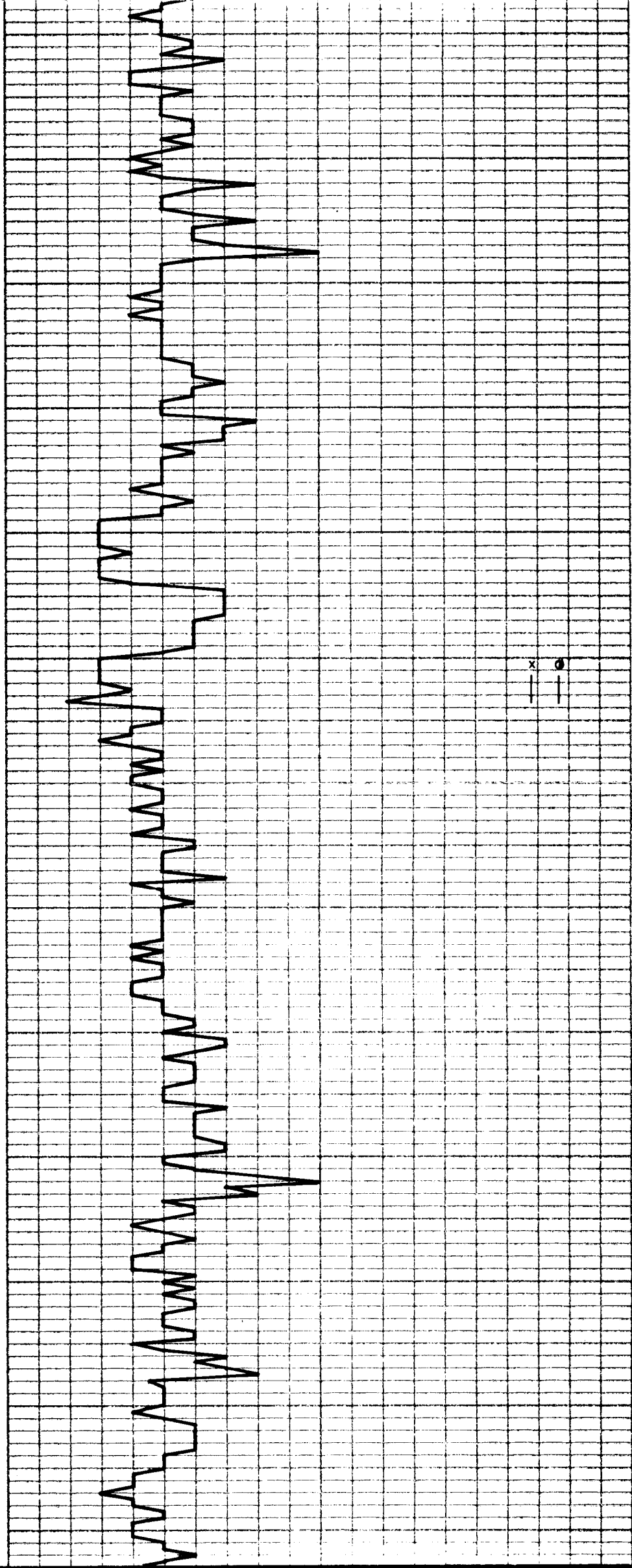
4800
G

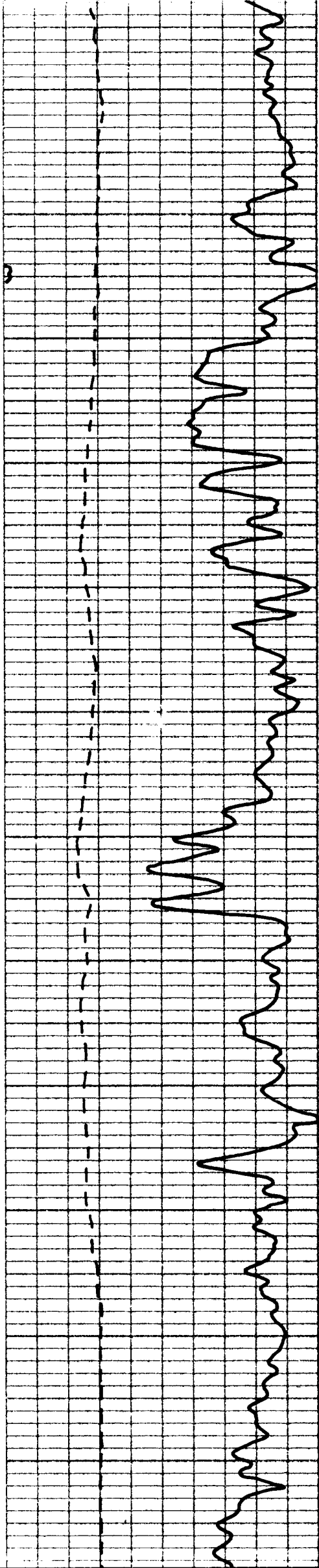
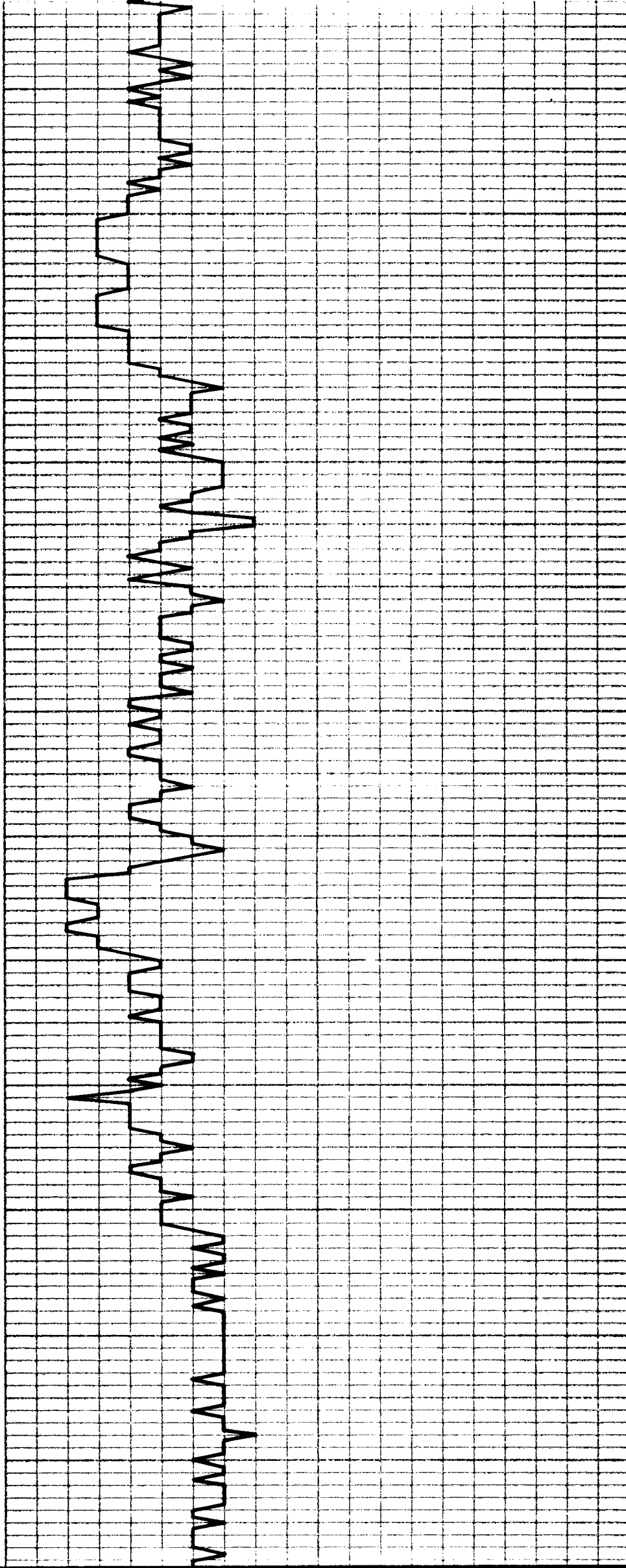
50

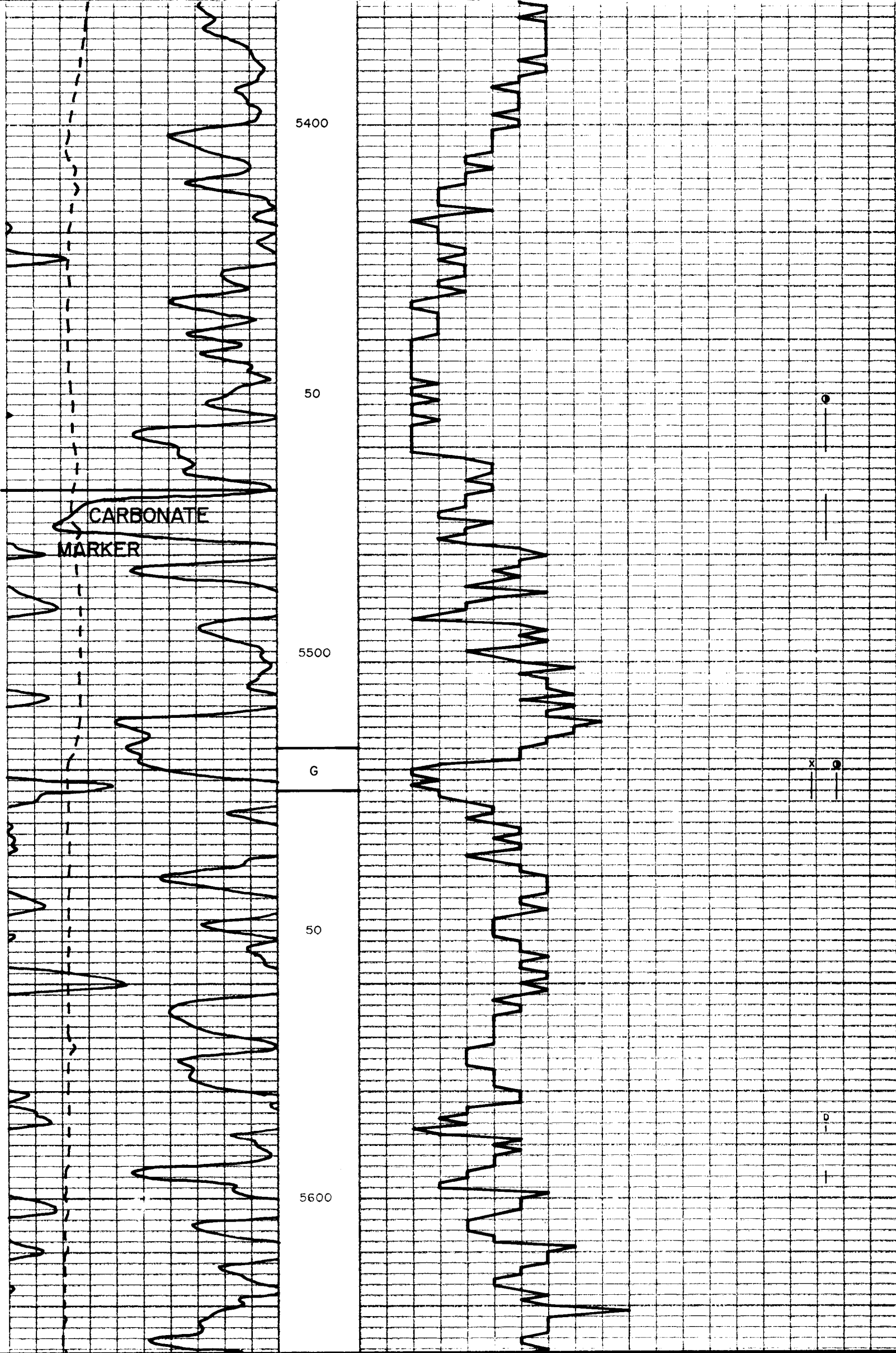
2nd
DOUGLAS
CREEK

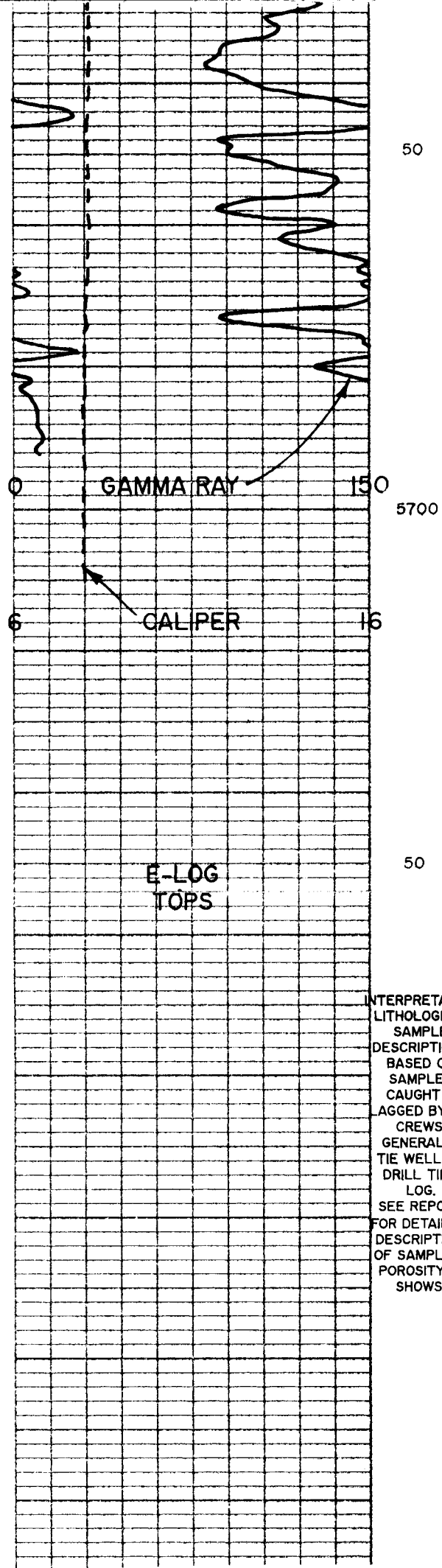


0
X

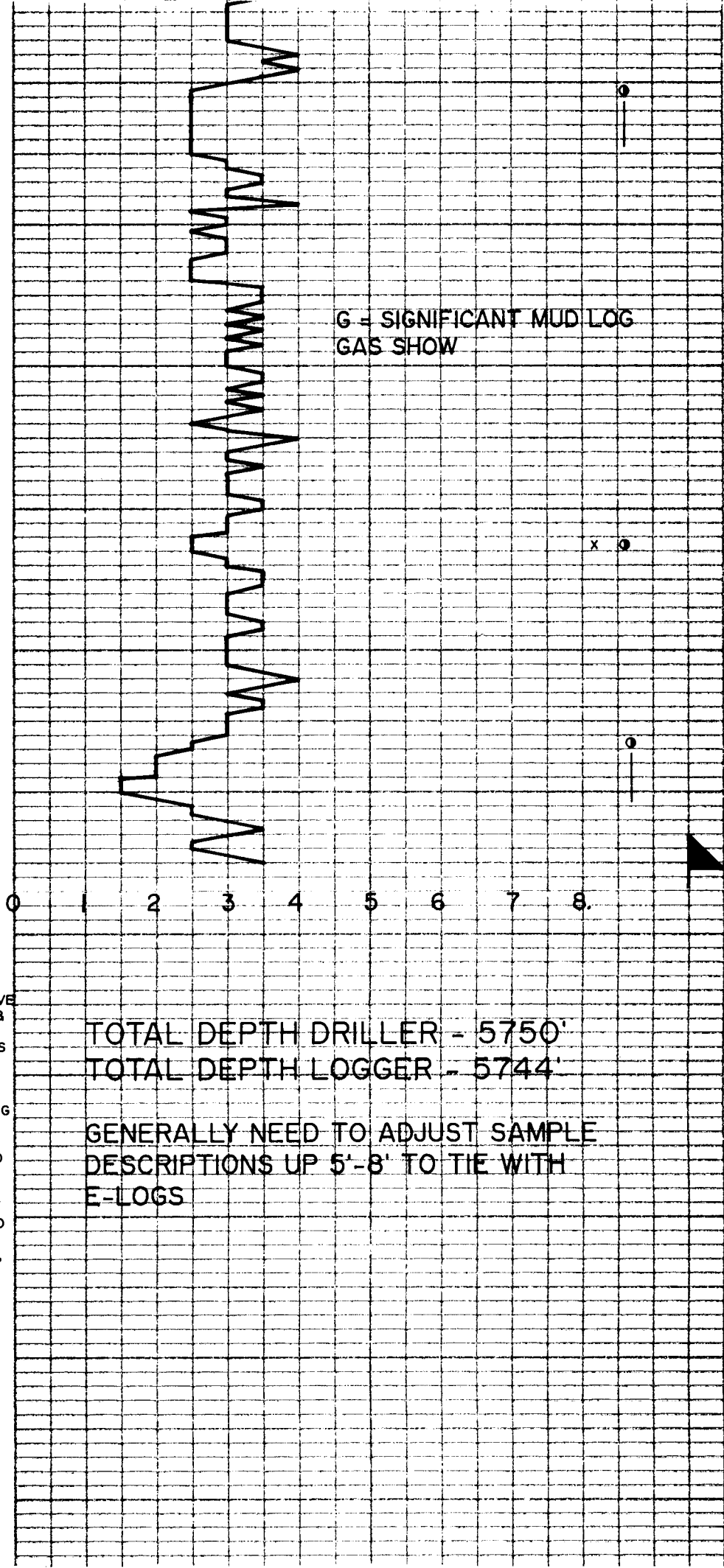








INTERPRETATIVE
LITHOLOGIC &
SAMPLE
DESCRIPTIONS
BASED ON
SAMPLES
CAUGHT &
LOGGED BY RIG
CREWS.
GENERALLY
TIE WELL TO
DRILL TIME
LOG.
SEE REPORT
FOR DETAILED
DESCRIPTION
OF SAMPLES,
POROSITY &
SHOWS



TOTAL DEPTH DRILLER - 5750'
TOTAL DEPTH LOGGER - 5744'

GENERALLY NEED TO ADJUST SAMPLE
DESCRIPTIONS UP 5'-8' TO TIE WITH
E-LOGS

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-31-93 TD: 5,750' (-0-) Day 11
Formation: Green River
Present Operation: Rig down, move rig.
Logging, trip in hole, circulate, lay down drill pipe &
collars. RU casing crew & run 133 jts 5-1/2" casing.
Cement by Dowell. 20 centralizers. ND BOP. Clean tank.

Guide shoe	.75'
1 jt 5-1/2", 15.5, K55 shoe jt	43.76'
Float collar	2.87'
132 jts 5-1/2", 15.5, K55 casing	<u>5,711.57'</u>
	5,758.95'

Set @ 5,751'. PBTD 5,703'.

Cement with 166 sxs Hilift, lead cement & tail with 258
sxs Class "G". Bump plug, float held. Plug down 11:00
PM 8-30-93. Release rig 3:00 AM 8-31-93.

DC: \$64,198

CC: \$175,920

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-31-93 TD: 5,750' (-0-) Day 11
Formation: Green River
Present Operation: Rig down, move rig.
Logging, trip in hole, circulate, lay down drill pipe & collars. RU casing crew & run 133 jts 5-1/2" casing. Cement by Dowell. 20 centralizers. ND BOP. Clean tank.

Guide shoe	.75'
1 jt 5-1/2", 15.5, K55 shoe jt	43.76'
Float collar	2.87'
132 jts 5-1/2", 15.5, K55 casing	<u>5,711.57'</u>
	5,758.95'

Set @ 5,751'. PBSD 5,703'.

Cement with 166 sxs Hilift, lead cement & tail with 258 sxs Class "G". Bump plug, float held. Plug down 11:00 PM 8-30-93. Release rig 3:00 AM 8-31-93.

DC: \$64,198

CC: \$175,920

8-31-93 Clean up location. Set rig anchors. Weld bell nipple on casing. MI Cannon Well Service Rig #1 & RU.
DC: \$13,738 CC: \$189,658

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-31-93 TD: 5,750' (-0-) Day 11
Formation: Green River
Present Operation: Rig down, move rig.
Logging, trip in hole, circulate, lay down drill pipe & collars. RU casing crew & run 133 jts 5-1/2" casing. Cement by Dowell. 20 centralizers. ND BOP. Clean tank.

Guide shoe	.75'
1 jt 5-1/2", 15.5, K55 shoe jt	43.76'
Float collar	2.87'
132 jts 5-1/2", 15.5, K55 casing	5,711.57'
	5,758.95'

Set @ 5,751'. PBTD 5,703'.

Cement with 166 sxs Hilift, lead cement & tail with 258 sxs Class "G". Bump plug, float held. Plug down 11:00 PM 8-30-93. Release rig 3:00 AM 8-31-93.

DC: \$64,198 CC: \$175,920

8-31-93 Clean up location. Set rig anchors. Weld bell nipple on casing. MI Cannon Well Service Rig #1 & RU.
DC: \$13,738 CC: \$189,658

9-1-93 TIH w/2-7/8" tbg & scraper to 5,705'KB. Circulate hole clean w/2% KCL water. TOOH w/tbg & scraper. RU Schlumberger to Bond Log from PBTD to 2,450'. RD Schlumberger. SDFN.
DC: \$4,094 CC: \$193,752

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

8-31-93 TD: 5,750' (-0-) Day 11
Formation: Green River
Present Operation: Rig down, move rig.
Logging, trip in hole, circulate, lay down drill pipe & collars. RU casing crew & run 133 jts 5-1/2" casing. Cement by Dowell. 20 centralizers. ND BOP. Clean tank.

Guide shoe	.75'
1 jt 5-1/2", 15.5, K55 shoe jt	43.76'
Float collar	2.87'
132 jts 5-1/2", 15.5, K55 casing	<u>5,711.57'</u>
	5,758.95'

Set @ 5,751'. PBTD 5,703'.

Cement with 166 sxs Hilift, lead cement & tail with 258 sxs Class "G". Bump plug, float held. Plug down 11:00 PM 8-30-93. Release rig 3:00 AM 8-31-93.

DC: \$64,198

CC: \$175,920

8-31-93 Clean up location. Set rig anchors. Weld bell nipple on casing. MI Cannon Well Service Rig #1 & RU.
DC: \$13,738 CC: \$189,658

9-1-93 TIH w/2-7/8" tbg & scraper to 5,705'KB. Circulate hole clean w/2% KCL water. TOOH w/tbg & scraper. RU Schlumberger to Bond Log from PBTD to 2,450'. RD Schlumberger. SDFN.
DC: \$4,094 CC: \$193,752

9-2-93 RIH w/Schlumberger & perf 5,610' - 5,516'KB w/2 SPF, POOH. TIH w/1 jt 2-7/8" tbg, 5-1/2" R-3 packer & 171 jts of 2-7/8" tbg. Bottom @ 5,330'. Set packer @ 5,299'. RU Western to break down. pressure test surface equipment 4500 PSIG - OK. Start break down, initial break @ 3200 PSIG @ 1/2 BPM; break back to 2600 PSIG. Start balls, 1 ball per bbl, pump 4 bbls water 4 balls. Pressure climbed to 4000 PSIG, pumped total of 9 balls, 26 bbls water, end pressure 4000 PSIG @ 0.2 bbls water per minute. Call Western for 500 gallons 15% HCL. RU Western acid truck. Pressure test to 4500 PSIG - OK.
Continued. . .

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

9-2-93

Continued. . .

Start pumping, pump 500 gallons HCL w/1 ball per bbl. Pump 12 bbls of acid w/12 balls. Set packer unloader. Try to pump acid on formation 4000 PSIG. Would not pump. Pump acid up tbq. Release packer, reset at perfs. Pump acid to perfs. Reset unloader. Could not pump onto formation. Pressure to 4000 PSIG. Shut well in. 12 hrs 2400 PSIG. SWIFN. Load to recover 27 bbls water.

DC: \$6,549

CC: \$200,301



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 [J]
FAX: (406) 245-1361 [X]

August 31, 1993

RECEIVED
SEP 07 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

DIVISION OF
OIL, GAS & MINING

Gentlemen:

RE: Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah

Enclosed is our sundry notice reporting intended use of a "replacement" rig rather than a drilling rig for completing the referenced well.

Sincerely,

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Grn.River

11. County or Parish, State

Duchesne County, UTAH

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E

1980' FSL, 600' FWL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other "replacement" rig
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator will use a completion rig to complete this well when the drilling rig moves off.

RECEIVED

SEP 07 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signature Bobbie Schuman

Title

Coordinator of Environmental
and Regulatory Affairs

Date

August 31, 1993

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

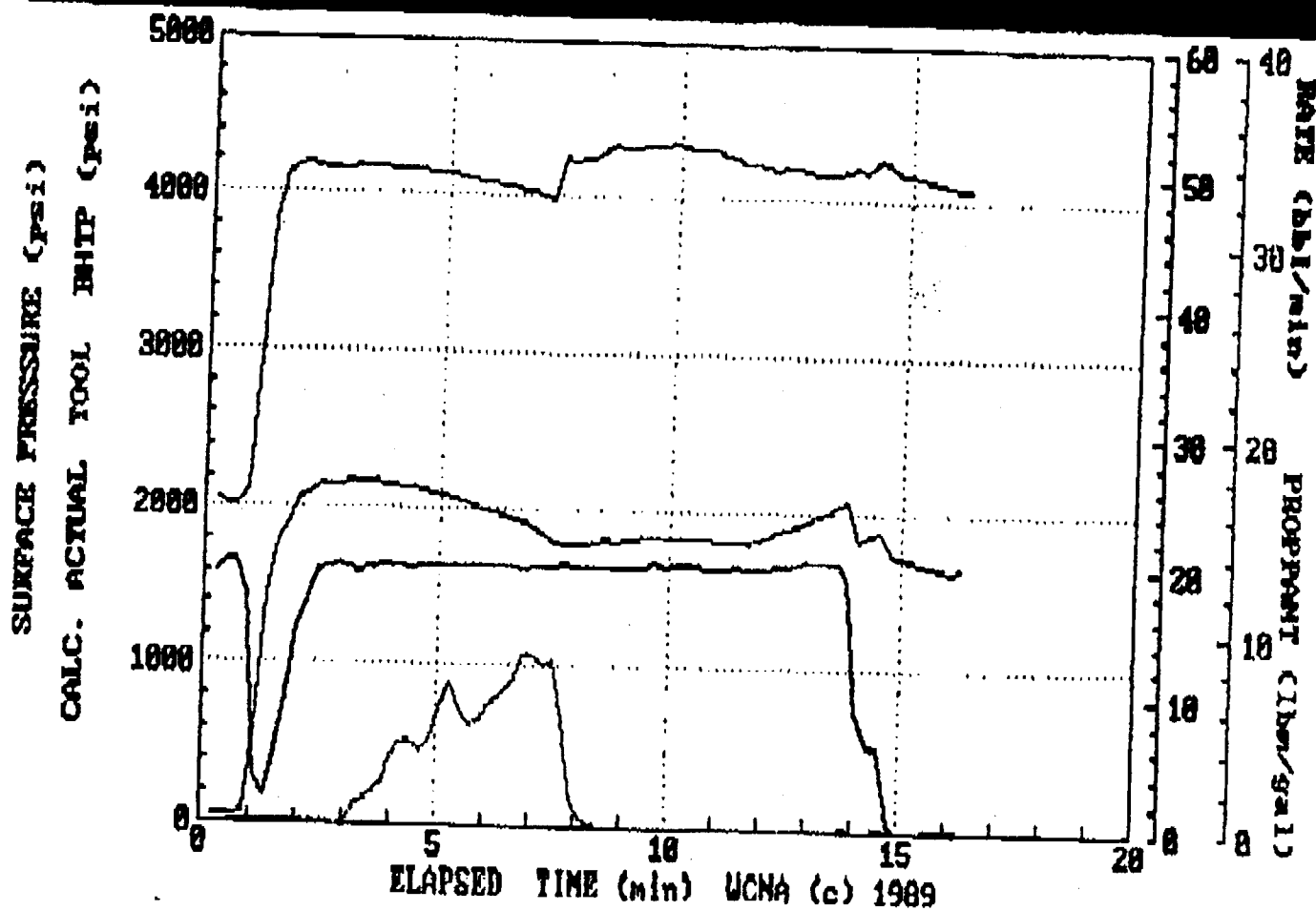
Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

- 9-2-93 Continued. . .
Start pumping, pump 500 gallons HCL w/1 ball per bbl. Pump 12 bbls of acid w/12 balls. Set packer unloader. Try to pump acid on formation 4000 PSIG. Would not pump. Pump acid up tbg. Release packer, reset at perfs. Pump acid to perfs. Reset unloader. Could not pump onto formation. Pressure to 4000 PSIG. Shut well in. 12 hrs 2400 PSIG. SWIFN. Load to recover 27 bbls water.
DC: \$6,549 CC: \$200,301
- 9-3-93 Completion
TP - 2400 psig, CP - 0 psig. Circ acid out of well. TOOH w/tbg & packer, perf 5510'-5516' w/2 SPF (Schlumberger). TIH w/1 jt 2-7/8", R-3 packer & 178 jts tbg set packer @ 5477' KB w/unloader valve open. RU Western to break down. Pressure test surface equipment to 5000 psig - OK. Start acid 15% HCL 500 gallons, 1 ball per bbl - 25 balls acid & 2% KCL flush = 31.5 bbls, 2 BPM. Close unloader, pump .4 bbls pressure to 4000 psig.
PLEASE SEE ATTACHED REPORT - 4 PAGES
- 9-7-93 Completion
TIH w/tbg. CP - 320 psig.

Page 6 of 9

13-5



SEP- SEP 07 '93 11:07AM BAA ON OIL DIV

P.9/14
P.00



The Western Company—Treatment Report

Page 7 of 8

Date 9-3-93 District VERMILION F. Receipt 220608 Operator _____
Lease PRD Well No. 13-S-1 Field PRD Location S S T 9 S R 12 E X
County Richmond State UT Stage Number _____ This Zone 4 This Well 4

WELL DATA: OGD NGD NOM OOD WDD IWD Misc. Depth TD/PB _____ Formation _____
 Tubing Size 2 7/8 WT. 6.5 Set at: 5488 Type Packer _____ Set At 5450
 Casing Size 5 1/2 WT. 15.5 Set From 5415 To TD Liner Size _____ Wt. _____
 Liner Set From _____ To _____ Open Hole: Size _____ From _____ To _____ Casing Perforations: Size _____
 Holes Per Foot 2 Intervals 5510-5516 12 Holes
 Previous Treatment _____ Prior Production _____

TREATMENT DATA Pad Used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Pad Type _____ Treating Fluid Type: Foam <input type="checkbox"/> Water <input type="checkbox"/> Acid <input type="checkbox"/> Oil <input type="checkbox"/> Treat. Fluid Vol. _____ Gal. Base Fluid Type <u>15% HCl ACID</u> Base Fluid Vol. <u>500</u> Gal. Foam Qual.: _____ % Mitchell <input type="checkbox"/> Slurry <input type="checkbox"/> Surface <input type="checkbox"/> Downhole <input type="checkbox"/> Total Prop Qty. _____ Lbs. Prop Type: Sand <input type="checkbox"/> WP-1 <input type="checkbox"/> WP-3 <input type="checkbox"/> Baux. <input type="checkbox"/> Other _____ Prop Mesh Sizes, Types and Quantities _____ Hole Loaded With _____ Treat Via: Tubing <input type="checkbox"/> Casing <input type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/> Ball Sealers: <u>25</u> In _____ Stages of _____ Types and Number of Pumps Used <u>1 ACID FRAC 700</u> Auxiliary Materials <u>E-1</u>		LIQUID/GAS PUMPED AND CAPACITIES IN BBL'S Tubing Cap. <u>349</u> Casing Cap. <u>12</u> Annular Cap. _____ Open Hole Cap. _____ Fluid to Load <u>0</u> Pad Volume _____ Treating Fluid <u>12</u> Flush <u>32.1</u> Overflush <u>4.2</u>
---	--	--

PROCEDURE SUMMARY	SPOT 12 BBLS ACID TO BOTTOM OF TUBING, SET	Fluid to Recover	2400
	PACKER, FLUSH ACID & 13 BBLS KCL / 29 BBLS TO BOTTOM PERF	Total N ²	—
		Total CO ₂	—

Time AM/PM	Treating Pressure-Psi		Surface Slurry BBLS. Pumped		Slurry Rate BPM	Surface CO ₂ BBLS. Pumped		CO ₂ Rate BPM	Surface N ₂ MSCF Pumped		N ₂ Rate SCFM	Comments
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
11:58												Test Loc 5000 PSI
12:03	200				2.0							START ACID / BALLS
12:04	200			12	2.0							START KCL / BALLS
12:15	200			25	2.0							START Flush
12:38	2000			57.1	4.1							Shut Down All Flows
12:41	2000				6.4							START INJECT TEST
12:42	2000			61.8	6.4							Shut Down

Treating Pressure: Min. 1900 Max. 4100 Avg. 2200 Customer Representative DALE GRIFFIN
 Inj. Rate on Treating Fluid 2.0 Rate on Flush 2.1 Western Representative R. SEALE
 Avg. Inj. Rate 4.0 I S D P. 1500 Flush Dens. lb./gal. 8.4 Distribution _____
 Final Shut-in Pressure 1500 in _____ Minutes _____
 Operator's Maximum Pressure 1900

Job Number: 192167 Recommendation ID # _____



Date 9-3-93 District VERMONT F. Receipt 262270 Operator WALCROW
Lease FEED Well No. 12-5 Field Mt. ACQUIT VALLEY Location SEC.
County Duchene State VT Stage Number 1 This Zone 5 This Well 5

WELL DATA OGD ~~NOG~~ NOX OOD WDD IWD Misc. ☐ Depth TD/PB _____ Formation _____
Tubing Size _____ WT. _____ Set at: _____ Type Packer _____ Set At _____
Casing Size 5 1/2 WT. 15.5 Set From SURF To TD Liner Size _____ Wt. _____
Liner Set From _____ To _____ Open Hole: Size _____ From _____ To _____ Casing Perforations: Size 1/5
Holes Per Foot 2 Intervals 5510 - 5516
Previous Treatment _____ Prior Production _____

TREATMENT DATA		LIQUID/GAS PUMPED AND CAPACITIES IN BBLs	
Pad Used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Pad Type: <u>Viking I</u>	Treating Fluid Type: Foam <input type="checkbox"/> Water <input checked="" type="checkbox"/> Acid <input type="checkbox"/> Oil <input type="checkbox"/>	Treat. Fluid Vol. _____ Gal.
Base Fluid Type: <u>35# Viking I</u>	Base Fluid Vol. _____ Gal.		
Foam Qual.: _____ %	Mitchell <input type="checkbox"/> Slurry <input type="checkbox"/> Surface <input type="checkbox"/> Downhole <input type="checkbox"/>	Total Prop Qty. <u>15000</u>	Lbs.
Prop Type: Sand <input checked="" type="checkbox"/> WP-1 <input type="checkbox"/> WP-3 <input type="checkbox"/> Baux. <input type="checkbox"/> Other _____			
Prop Mesh Sizes, Types and Quantities: <u>20/40 Sand</u>			
Hole Loaded With: <u>KCL</u>	Treat Via: Tubing <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Anul. <input type="checkbox"/> Tubing & Anul. <input type="checkbox"/>		
Ball Sealers: _____ In _____	Stages of _____		
Types and Number of Pumps Used: <u>3 - PL 11000</u>			
Auxiliary Materials: <u>12# FRACCION. 20</u>			
PROCEDURE		Tubing Cap. _____	
		Casing Cap. <u>131</u>	
		Annular Cap. _____	
		Open Hole Cap. _____	
		Fluid to Load <u>18</u>	
		Pad Volume <u>15</u>	
		Treating Fluid <u>1360</u>	
		Flush <u>124</u>	
		Overflush _____	
		Fluid to Recover <u>245</u>	
		Total N ₂ _____	
		Total CO ₂ _____	

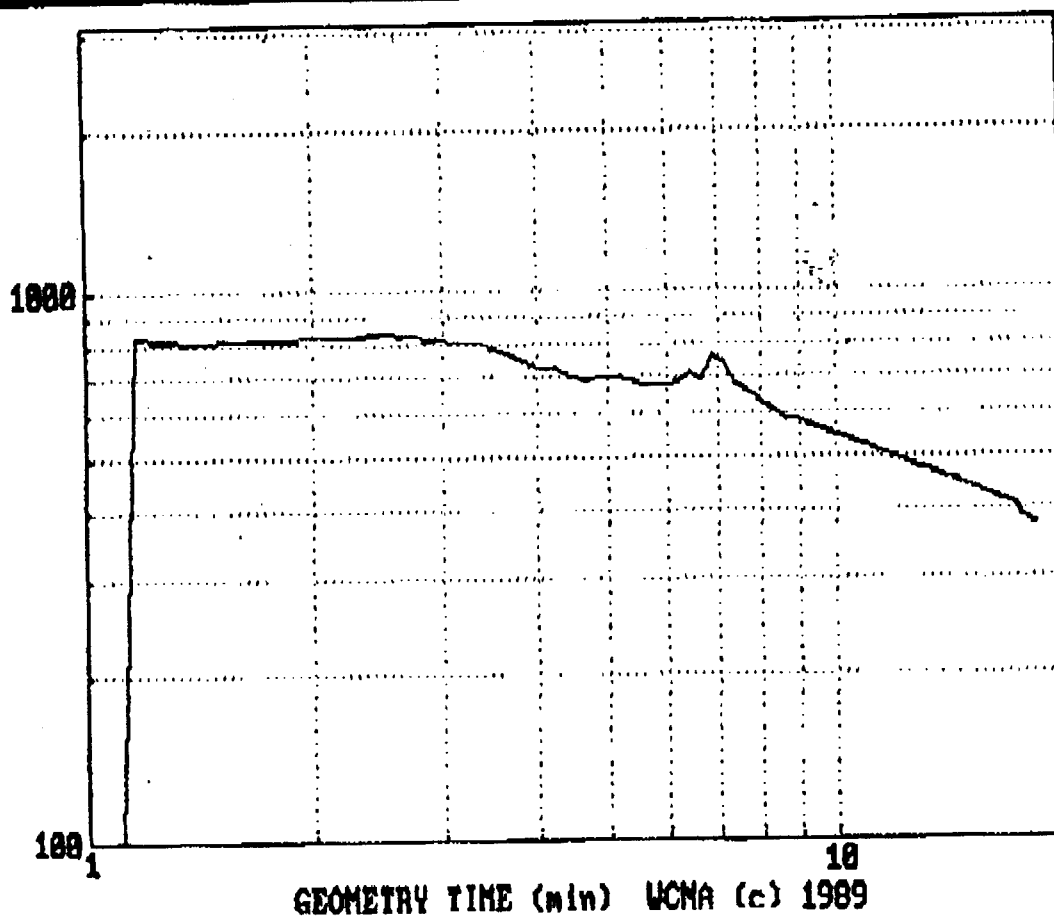
[illegible]

Treating Pressure: Min. 1540 Max. 2140 Avg. 1970 Customer Representative D. L. Gertman
 Inj. Rate on Treating Fluid 19.8 Rate on Flush 19.8 Western Representative D. J. Sepple
 Avg. Inj. Rate 19.8 I.S.D.P. 1750 Flush Dens. lb./gal. _____ Distribution _____
 Final Shut-in Pressure _____ in _____ Minutes _____
 Operator's Maximum Pressure _____

296 Number

Recommendation ID #

CALC. ACTUAL TOOL NET PRESSURE (psi)



GEOMETRY TIME (min) WCNA (c) 1989

BALCRON OIL
DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

--TIGHT HOLE--

9-2-93

Continued. . .

Start pumping, pump 500 gallons HCL w/1 ball per bbl. Pump 12 bbls of acid w/12 balls. Set packer unloader. Try to pump acid on formation 4000 PSIG. Would not pump. Pump acid up tbg. Release packer, reset at perfs. Pump acid to perfs. Reset unloader. Could not pump onto formation. Pressure to 4000 PSIG. Shut well in. 12 hrs 2400 PSIG. SWIFN. Load to recover 27 bbls water.
DC: \$6,549 CC: \$200,301

9-3-93

Completion

TP - 2400 psig, CP - 0 psig. Circ acid out of well. TOOH w/tbg & packer, perf 5510'-5516' w/2 SPF (Schlumberger). TIH w/1 jt 2-7/8", R-3 packer & 178 jts tbg set packer @ 5477' KB w/unloader valve open. RU Western to break down. Pressure test surface equipment to 5000 psig - OK. Start acid 15% HCL 500 gallons, 1 ball per bbl - 25 balls acid & 2% KCL flush = 31.5 bbls, 2 BPM. Close unloader, pump .4 bbls pressure to 4000 psig.

****PLEASE SEE ATTACHED REPORT - 4 PAGES****

9-6-93

Completion

TIH w/tbg. CP - 320 psig.

9-7-93

Completion

CP - 320 psig. Bleed well down, flow back 50 BOW. TIH w/one jt 2-7/8" tbg, R-3 packer, seat nipple & 176 jts tbg. Tag fill @ 5503' KB. Circ clean to 5667', POOH to 5453', set packer, EOT @ 5485'. Made 30 swab runs, swab back 122 BOF. Fluid level stayed @ 5200', 1 run @ 15 min. Last 4 runs - 10% oil, gas cut. SWIFN.
DC: \$2,603

Page 1 of 4

Balcron Oil DAILY OPERATING REPORT

DATE: 9/9/93

REPORT TO WORKING INTEREST PARTNERS IN JONAH UNIT

BALCRON MONUMENT FEDERAL #13-5 Operator: EREC/Balcron
 BOD WI: 79.78%
 --TIGHT HOLE-- Location: NW SW Section 5, T9S, R17E
 Duchesne County, Utah
 Prospect: Jonah Unit, Monument Butte Field

9-8-93 Completion
 CP - 0 psig, TP - 5 psig. Made 2 swab runs, recovered 12 bbls of fluid - 70% oil. TIH tag sand 5648' KB, circ clean to 5705', TOOH w/tbg & packer. RU Schlumberger to perf 4638'-49', 6 shots & 4789'-4804', 8 shots. RD Schlumberger. TIH w/RBP, 1 jt 2-7/8" tbg, 5-1/2" packer, SN & 150 jts tbg. Set BP @ 4700' KB, POOH w/4 jts tbg, set packer @ 4575' KB, btm 4614' KB. RU Halliburton to do break down on 4638'-49' perfs, pressure test surface equipment to 4000 psig. Start break down, initial break @ 3000 psig @ 2.4 BPM, start 1 ball per BOW, 1700 psig @ 4 BPM. No ball off, surge ball back, pump for rate 6.2 BPM 2500 spi. TIH, release BP, rest BP @ 4899' KB, set packer @ 4730' KB, EOT. Start break down on 4789'-4804', initial break 2800 to 2500 psig, 4 BPM start 1 ball per BOW. Surge ball back. Pump for rate 4.4 BPM @ 2500 psig. RD Schlumberger. SWIFN. Load used today - 161 BOW; Load recovered today - 4; Load to be recovered - 371 BOW.
 DC: \$5,450

BALCRON MONUMENT FEDERAL #22-5 Operator: EREC/Balcron
 BOD WI: 79.78%
 --TIGHT HOLE-- Location: SE NW Section 5, T9S, R17E
 Duchesne County, Utah
 Prospect: Jonah Unit, Monument Butte Field

9-9-93 TD: 5,850' (138') Day 9
 Formation: Green River
 Present Operation: LD Collars
 Drill, circ for logs, strap out of hole & log well. TIH, circ, LD drill pipe & collars.
 DC: \$18,503 CC: \$120,992

Page 1 of 4

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/9/93

REPORT TO WORKING INTEREST PARTNERS IN JONAH UNIT

BALCRON MONUMENT FEDERAL #13-5 Operator: EREC/Balcron
BOD WI: 79.78%
--TIGHT HOLE-- Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-8-93 Completion
CP - 0 psig, TP - 5 psig. Made 2 swab runs, recovered 12 bbls of fluid - 70% oil. TIH tag sand 5648' KB, circ clean to 5705', TOOH w/tbg & packer. RU Schlumberger to perf 4638'-49', 6 shots & 4789'-4804', 8 shots. RD Schlumberger. TIH w/RBP, 1 jt 2-7/8" tbg, 5-1/2" packer, SN & 150 jts tbg. Set BP @ 4700' KB, POOH w/4 jts tbg, set packer @ 4575' KB, btm 4614' KB. RU Halliburton to do break down on 4638'-49' perfs, pressure test surface equipment to 4000 psig. Start break down, initial break @ 3000 psig @ 2.4 BPM, start 1 ball per BOW, 1700 psig 4 BPM. No ball off, surge ball back, pump for rate 6.2 BPM 2500 spi. TIH, release BP, rest BP @ 4899' KB, set packer @ 4730' KB, EOT. Start break down on 4789'-4804', initial break 2800 to 2500 psig, 4 BPM start 1 ball per BOW. Surge ball back. Pump for rate 4.4 BPM @ 2500 psig. RD Schlumberger. SWIFN. Load used today - 161 BOW; Load recovered today - 4; Load to be recovered - 371 BOW.
DC: \$5,450

BALCRON MONUMENT FEDERAL #22-5 Operator: EREC/Balcron
BOD WI: 79.78%
--TIGHT HOLE-- Location: SE NW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-9-93 TD: 5,850' (138') Day 9
Formation: Green River
Present Operation: LD Collars
Drill, circ for logs, strap out of hole & log well. TIH, circ, LD drill pipe & collars.
DC: \$18,503 CC: \$120,992

Page 1 of 3

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/10/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #13-5
--TIGHT HOLE--

Operator: EREC/Balcron
Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-9-93 Completion
Made 4 swab runs - 24 BOW. Found trace of oil on 3rd run. TOOH
w/tbg & packer. SWIFN.
DC: \$6,013

BALCRON MONUMENT FEDERAL #22-5
--TIGHT HOLE--

Operator: EREC/Balcron
Location: SE NW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-10-93 TD: 5,850' (0') Day 10
Formation: Green River
Present Operation: RD Moving off.
LD collars, RU csg crew & run 5-1/2" csg, Halliburton cmt. ND,
clean tank, set slips, rig down. Guide shoe - .60; 1 jt 5-1/2 15.5
shoe jt - 44.41; float collar - 2.76'; 135 jts 5-1/2" 15.5 csg -
5774.30'; 20 centralizers - 5822.07; landing jt - 11. Csg set @
5833.07'. PBD 5784'. Cmt w/150 sxs hilift standard & tail w/265
sxs 50=50 poz. Plug down 12 noon 9-9-93. Rig released @ 4 p.m.
9-9-93.
DC: \$48,656 CC: \$169,648

BALCRON MONUMENT FEDERAL #32-11
--TIGHT HOLE--

Operator: EREC/Balcron
Location: SW NE Section 11, T9S, R16E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-10-93 TD: 5,555' (749') Day 6
Formation: Green River
MW 8.4+ VIS 27 pH 9.5
Present Operation: Load hole w/fluid.
Drill, survey, clean on rig. Circ hole w/fluid. Prepare to TOH.
DC: \$11,790 CC: \$93,742



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 []
FAX: (406) 245-1361 [X]

September 10, 1993

RECEIVED

SEP 13 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

**DIVISION OF
OIL, GAS & MINING**

Gentlemen:

RE: Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah

Enclosed is the proposed production facility diagram for the referenced well.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

CONFIDENTIAL

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
U-020252

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
Jonah Unit

8. Well Name and No.
Balcron Monument Federal #13-5

9. API Well No.
43-013-31370

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

11. County or Parish, State
Duchesne County, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW SW Section 5, T9S, R17E
1980' FSL, 600' FWL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other proposed production facility diagram
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is the proposed production facility diagram for this well.

CONFIDENTIAL
SEP 13 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

Bobbie Schuman
(This space for Federal or State office use)

Title Coordinator of Environmental
and Regulatory Affairs

Date September 10, 1993

Approved by _____
Conditions of approval, if any:

Title _____

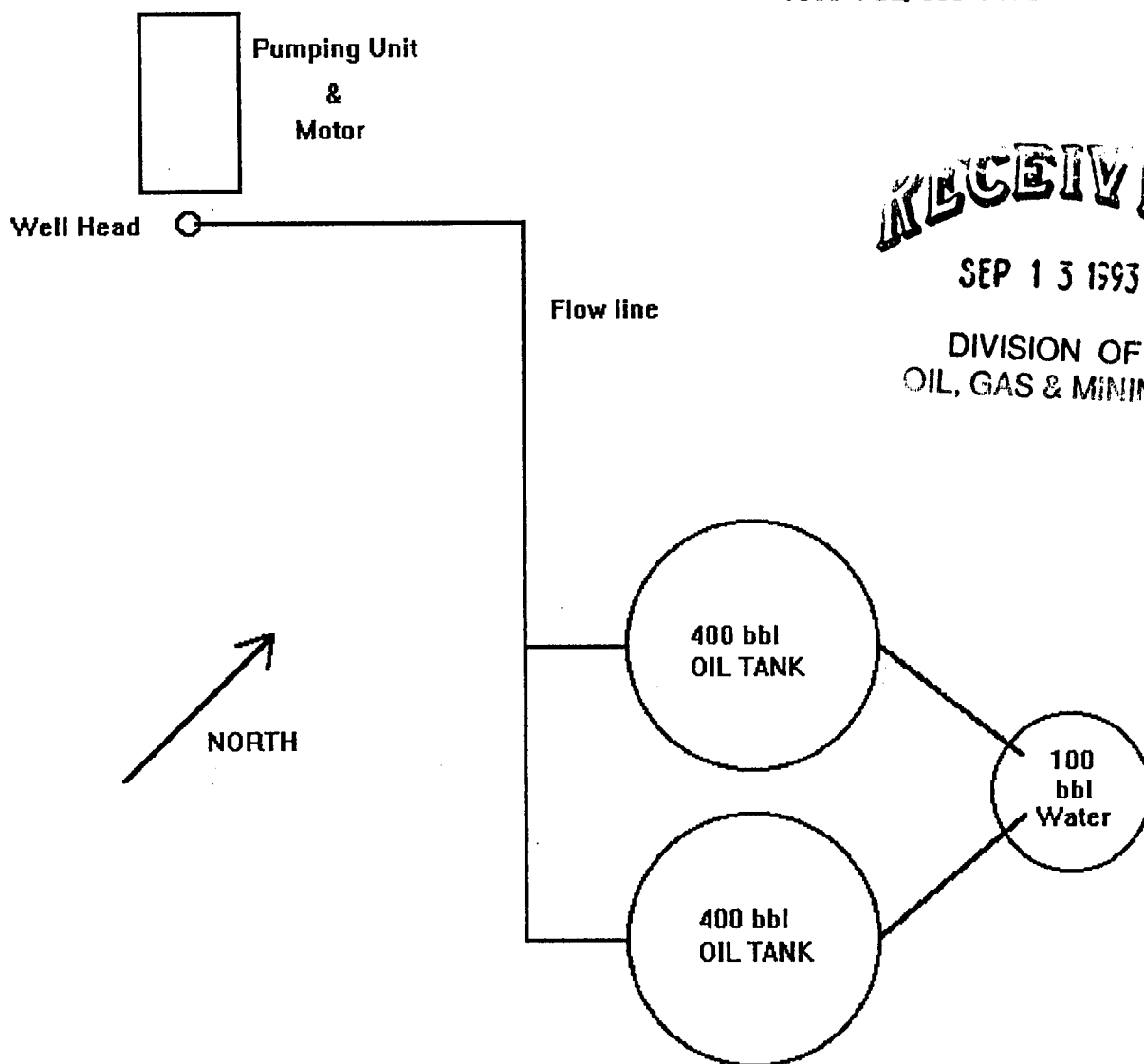
Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Equitable Resources Energy Company
Balcron Monument Butte #13-5
Proposed Production Facility Diagram

Balcron Monument Butte #13-5
NW SW Sec. 5, T9S, R17E
Duchesne County, Utah
Federal Lease #U-020252
1980' FSL, 600' FWL



RECEIVED

SEP 13 1993

DIVISION OF
OIL, GAS & MINING

Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

Access
Road

DIAGRAM NOT TO SCALE

Q-10-93
VK

Page 1 of 3

Balcron Oil
DAILY OPERATING REPORT

DATE: 9-13-93
~~9-10-93~~

****JONAH UNIT PARTNER' DAILY REPORT****

BALCRON MONUMENT FEDERAL #13-5 Operator: EREC/Balcron
--TIGHT HOLE-- Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte

9-11-93 Completion
Csg vac psig. TIH w/BP retrieving tool, 1 jt 2-7/8" tbg, 5-1/2" HD packer, seat nipple & 2-7/8" tbg. Tag sand fill @ 4727' KB, RU to circ, clean out to 4869' KB. POOH & set packer @ 4581' KB. made 30 swab runs. last 4 runs 2% oil. Fluid level 3200' last 4 runs. No sand. Release packer, tag sand fill @ 4850' KB. Clean out to BP, release BP, TOOH w/tbg & btm hole assembly. SDFN. Load recovered 175 BOW, load to recover 659 BOW.
DC: \$1,965

BALCRON MONUMENT FEDERAL #23-5 Operator: EREC/Balcron
Location: NE SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit / Monument Butte
PTD: 5700' Green River Oil - Dev.

9-12-93 TD: 1,840' (1,246') Day 2
Formation: Green River
MW 8.3 VIS 26 pH 10
Present Operation: Drilling
Drill, survey, clean & paint, & level derrick.
DC: \$15,050 CC: \$45,977

BALCRON MONUMENT FEDERAL #23-11 Operator: Balcron/EREC
Location: NE SW Section 11, T9S, R16E
Duchesne County, Utah
Prospect: Monument Butte
PTD: 5750' Green River Oil - Dev.

8-25-93 Start location.

8-26-93 Work on location.

8-27-93 Finish location.

8-30-93 Move on Ross air rig. Spud 12:30 8-30-93. Drill 12-1/4" hole to 268'.

Page 1 of 1

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/14/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #13-5
--TIGHT HOLE--

Operator: EREC/Balcron
Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte

9-13-93 Completion
CP - 75 psig. TIH w/1 jt 2-7/8" EUE, J-55, 8RD - 31.50'; 1 perf
sub 2-7/8" x 3' - 3.20'; 1 seating nipple - 1.10'; 178 jts tbg 2-
7/8" EUE, J-55, 8RD, 6.5# - 5532.38'; total - 5568.18' + KB 13' =
5581.18'. ND BOP, NU wellhead. TIH w/1 BHP, 2-1/2 x 1-1/2 x 16'
BHAC w/ring plunger; six 1'x25' rods EL w/2-1/2 riton guides; 214
3/4"x25' rods grade D plain; two 3/4" x 6' pony; two 3/4"x4' pony;
one 3/4"x2' pony; one 1-1/4 x 16' polish rod SM. Clamp rods off.
RDMO.
DC: \$6,873

BALCRON MONUMENT FEDERAL #23-11

Operator: EREC/Balcron
Location: NE SW Section 11, T9S, R16E
Duchesne County, Utah
Prospect: Jonah Unit - Monument Butte
PTD: 5750' Green River Oil - Dev.

9-14-93 TD: 476' (25') Day 2
Formation: Uintah
MW 8.4 VIS 27 pH 9
Present Operation: WO parts.
Drill, pull main drum out of draw-works & sent to machine shop to
replace bearings.
DC: \$676 CC: \$24,442

Balcron Oil DAILY OPERATING REPORT

DATE: 9/16/93

****JONAH UNIT PARTNERS' REPORT******BALCRON MONUMENT FEDERAL #13-5**
--TIGHT HOLE--

Operator: EREC/Balcron
 Location: NW SW Section 5, T9S, R17E
 Duchesne County, Utah
 Prospect: Jonah Unit, Monument Butte

9-15-93 Completion
 Reserve pit restoration. Start surface equipment hookup.
 DC: \$13,074

BALCRON MONUMENT FEDERAL #23-5

Operator: EREC/Balcron
 Location: NE SW Section 5, T9S, R17E
 Duchesne County, Utah
 Prospect: Jonah Unit, Monument Butte

9-16-93 TD: 4,649' (639') Day 6
 Formation: Green River
 MW 8.4 VIs 27 pH 10
 Present Operation: Drilling
 Drill, survey, clean & paint. Unload rest of 5-1/2" csg.
 DC: \$8,414 CC: \$84,259

BALCRON MONUMENT FEDERAL #23-11

Operator: Balcron/EREC
 Location: NE SW Section 11, T9S, R16E
 Duchesne County, Utah
 Prospect: Monument Butte

---TIGHT HOLE---

9-16-93 TD: 476' (0') Day 4
 Formation: Uintah
 Present Operation: Repair rig.
 DC: \$400 CC: \$25,814

BALCRON MONUMENT FEDERAL #22-5
--TIGHT HOLE--

Operator: EREC/Balcron
 Location: SE NW Section 5, T9S, R17E
 Duchesne County, Utah
 Prospect: Jonah Unit, Monument Butte Field

9-15-93 Completion
 CP - 40 psig, TP - 0 psig. RU Western to break down. Pressure test surface equip to 5000 psig - OK. Initial break 3100 psig to 2400 psig @ 4 BPM, start ball. Balls on perfs. Ball off, surge balls back, pump for rate 6 BPM @ 3000 psig, ISIP - 1500 psig. TOOH w/tbg & packer. RU Western to frac, pressure test surface equip to 6000 psig - OK.

	Max Rate	Max PSI	BOS	
Pad	10.8	3000		1600 ISIP
Sand #2 20/40	Shut frac down		13	
3# 20/40	Will acidize		14	
4# 20/40	9-17-93		41	
5# 20/40			58	
6# 20/40			61	
6# 16/30			45	
7# 16/30	Load to rec 128 BOW			
8# 16/30			32	
Flush			116	
DC: \$13,142				



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 16, 1993

Bobbie Schuman
Equitable Resources Energy Company
P. O. Box 21017
Billings, Montana 59104

Re: Request for Completed Entity Action Form - Balcron Monument
Federal 13-5 NWSW Sec. 5, T. 9S, R. 17E - Duchesne County,
Utah

Dear Ms. Schuman:

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Balcron Monument Federal 13-5 well, API Number 43-013-31370, on August 10, 1993. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by September 30, 1993.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Cordova at the above number.

Sincerely,

Don Staley
Administrative Supervisor

lec

Enclosure

cc: R. J. Firth
File

Page 1 of 2

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/23/93

****JONAH UNIT PARTNERS' REPORT****

BALCRON MONUMENT FEDERAL #13-5
--TIGHT HOLE--

Operator: EREC/Balcron
Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte

9-22-93 Completion
Pit reclamation. Continue to hookup surface equipment.
DC: \$2,662

BALCRON MONUMENT FEDERAL #22-5
--TIGHT HOLE--

Operator: EREC/Balcron
Location: SE NW Section 5, T9S, R17E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-22-93 Completion
Start reclamation of pit. Start surface equipment hookup.
DC: \$12,201

BALCRON MONUMENT FEDERAL #32-11
--TIGHT HOLE--

Operator: EREC/Balcron
Location: SW NE Section 11, T9S, R16E
Duchesne County, Utah
Prospect: Jonah Unit, Monument Butte Field

9-22-93 Completion
CP - 50 psig. Made 8 runs, recovered 38 BF, 7 oil - 32 wtr.
Release packer, RIH, tag sand fill @ 5497' KB. Circ clean to 5711'
(PBSD). TOOH w/tbg & packer. RU Cutter Wireline to perf 4740'-
4744' 2 SPF. RD Cutters Wireline. TIH w/5-1/2" BP set @ 5063' KB,
5-1/2" HD packer set @ 4667' KB. SDFN.
DC: \$7,027

BALCRON MONUMENT FEDERAL #23-11

---TIGHT HOLE---

Operator: Balcron/EREC
Location: NE SW Section 11, T9S, R16E
Duchesne County, Utah
Prospect: Monument Butte

9-23-93 TD: 5,750' (0') Day 11
Formation: Green River
Present Operation: RDMO
Log well, had to run Density log over. TIH & circ, LD drill pipe
& collars. Run 5-1/2" csg & cmt. ND, set slips & clean mud tanks.
Plug down @ 2:30 a.m. 9-23-93. Rig released @ 6 a.m. 9-23-93.
Csg: Guide shoe .75'; 1 jt 15.50 shoe jt - 44.19'; float collar -
2.65'; 135 jt 5-1/2" 15.5# K-55 - 5174.08'; landing jt - 9'; Csg
set @ 5730.67'. PBSD - 5683.08'. 20 centralizers. Cmt'd by
Halliburton w/90 sxs hifill & tail w/350 sxs 50-50. Plug down @
2:30 a.m. 9-23-93.
DC: \$63,363

CC: \$162,057

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/24/93

****JONAH UNIT PARTNERS' REPORT****

BALCRON MONUMENT FEDERAL #13-5

--TIGHT HOLE--

Operator: EREC/Balcron

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit, Monument Butte

9-23-93 Completion
Set 2280 Lufkin Beam Pump.
DC: \$26,790

BALCRON MONUMENT FEDERAL #32-11

--TIGHT HOLE--

Operator: EREC/Balcron

Location: SW NE Section 11, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit, Monument Butte Field

9-23-93 Completion
Csg - vac psi, tbg - vac psi. RU Dowell to do KCL break down. Pressure test surface equipment to 5000 psi - OK. Start break down initial break @ 4100 spi, back to 2400 psi 2.5 BPM. Start balls, 2 ball/bbl, 4 BPM. Average pressure 2400 psi. Ball off, surge balls back. Pump for rate 5.5 BPM @ 2500 psi, total load used 54 BW. RD Dowell, RU to swab, flow back 15 BW. Made 4 swab runs, recovered 24 BW w/trace of oil. TOOH w/tbg & packer, RU Western to frac. Pressure test 4000 psi - OK. Frac well w/10,000# 16/30 sand, average pressure 2900 psi, average rate 13 BPM. RD Western & SDFN. Load to recover 693 BW.
DC: \$32,271

BALCRON MONUMENT FEDERAL #23-5

--TIGHT HOLE--

Operator: EREC/Balcron

Location: NE SW Section 5, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit, Monument Butte

9-23-93 Completion
RU Cutter Wireline to perf 5492'-5510' 2 SPF .40". RD Cutter. TIH w/1 jt 2-7/8" tbg, 5-1/2" packer, SN, & 176 jts 2-7/8" tbg. Set packer @ 5426', EOT @ 5464' KB. RU Dowell to do break down. Pressure test surface equipment to 5000 psig - OK. Initial break 3800 psi back to 1500 psi, 3 BPM average 2000 psi. Start balls, 2 balls per bbl, 6 BPM, ball on perfs, 4 BPM. Average pressure 1790 psi, no ball off. Surge balls back, pump for rate 5.6 BPM @ 2500 psi, total load 75 BW. ISIP - 1750 psi. Flow back 30 BW, made 5 swab runs, recovered 30 BW, last run trace of oil. TOOH w/tbg & packer. SDFN.
DC: \$5,597

Page 1 of 2

Balcron Oil

DAILY OPERATING REPORT

DATE: 9/27/93

****JONAH UNIT PARTNERS' REPORT****BALCRON MONUMENT FEDERAL #13-5

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW SW Section 5, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit, Monument Butte

--TIGHT HOLE--

9-24-93 Completion
Continue surface equipment hookup. Start up @ 1430 hr. 4 SPM, 74" stroke.
DC: \$990

BALCRON MONUMENT FEDERAL #32-11

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW NE Section 11, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit, Monument Butte Field

--TIGHT HOLE--

9-24-93 Completion
CP - 850 psig. TIH w/1 jt 2-7/8" tbg, 1 HD 5-1/2" packer, 1 SN & 2-7/8" tbg. Tag sand @ 4850' KB, set packer @ 4667' KB. Made 12 swab runs, recover 43 BF, trace of oil, no sand. TIH to sand fill @ 4863' KB. Circ clean to bridge plug, retrieve BP. TOOH w/2-7/8" t b g , p a c k e r & B P .

	Length	Landed
TIH w/1 jt 2-7/8" tbg, 2-7/8" EUE, J-55, 8RD, 6.5	30.10'	5263'
1 perf sub 2-7/8" x 3'	3.04'	5233'
1 seat nipple	1.10'	5230'
1 jt 2-7/8" tbg EUE, J-55, 8RD, 6.5#	5219'	5229'

ND BOP, NU wellhead. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' RHAC & 60 3/4" rods. SDFN. Load to recover 375 BW.
DC: \$9,802

9-25-93 Completion
TIH w/149 3/4" x 25' rods, one 8' pony, one 4' pony, one 2' pony, & one 1-1/4" x 16' PR. Clamp rods off. RDMO.
Rod string configuration:
1 BHP 2-1/2 x 1-1/2 x 16' RHAC w/SM plunger
209 rods 3/4" x 25' plain
One 8' x 3/4" pony
One 4' x 3/4" pony
One 2' x 3/4" pony
One 1-1/4" x 16' polish rod SM.
DC: \$619



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

September 23, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

RE: Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah

and

Balcron Monument Federal #22-5
SE NW Section 5, T9S, R17E
Duchesne County, Utah

Enclosed for your records is the Entity Action Form -
Form #6 for the Balcron Monument Federal #13-5 that your
office did not receive at the time that we reported spud
on the well.

I have also enclosed a copy of the Entity Action Form for
the Balcron Monument Federal #22-5 that was sent to your
office on August 16, 1993.

Please feel free to contact me if you have any questions.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

Enclosures

SEP 27 1993

BALCRON OIL DIVISION

Equitable Resources Energy Company
OPERATOR Balcron Oil Division
ADDRESS P.O. Box 21017
Billings, MT 59104

OPERATOR ACCT. NO. N 9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11526	43-013-31370	Balcron Monument Federal #13-5	NW SW	5	9S	17E	Duchesne	8-10-93	8-10-93
WELL 1 COMMENTS: Spud of a new well. <i>Entity added 9-28-93. See</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Bobbie Schuman
Signature
Coordinator of Environmental
and Regulatory Affairs
Title
Date 9-23-93
Phone No. 406 259-7860

OCT 25 1993

DIVISION OF
OIL, GAS AND MINING

UTAH DIVISION OF OIL, GAS AND MINING
EQUIPMENT INVENTORY

Operator: EQUITABLE RESOURCES Lease: State: Federal: Y
Indian: Fee:

Well Name: BALCRON MONUMENT FEDERAL 13-5 API Number: 43-013-31370
Section: 5 Township: 9S Range: 17E County: DUCHESNE Field:
MONUMENT BUTTE
Well Status: POW Well Type: Oil: Y Gas:

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY:

Y Well head N Boiler(s) N Compressor N Separator(s)
N Dehydrator(s) N Shed(s) N Line Heater(s) N Heated
Separator
 VRU Heater Treater(s)

PUMPS:

 Triplex Chemical Centrifugal

LIFT METHOD:

Y Pumpjack Hydraulic Submersible Flowing

GAS EQUIPMENT:

N Gas Meters N Purchase Meter N Sales Meter

TANKS: NUMBER

SIZE

<u>Y</u>	Oil Storage Tank(s)	<u>1-400 BARREL W/BURNER</u>	<u> </u> BBLS
<u>Y</u>	Water Tank(s)	<u>1-125 PIT TANK</u>	<u> </u> BBLS
<u> </u>	Power Water Tank	<u> </u>	<u> </u> BBLS
<u> </u>	Condensate Tank(s)	<u> </u>	<u> </u> BBLS
<u>Y</u>	Propane Tank	<u> </u>	<u> </u> BBLS

REMARKS: SUBSURFACE, OPEN TOPPED PIT TANK USED FOR DRAIN-OFFS. EQUIPMENT
IS RUN FROM CASING GAS WITH PROPANE BACKUP. LINE HEATER IS HEATED BY EXHAUST
MUFFLER. NO SALE LINE OR METER AT PRESENT TIME.

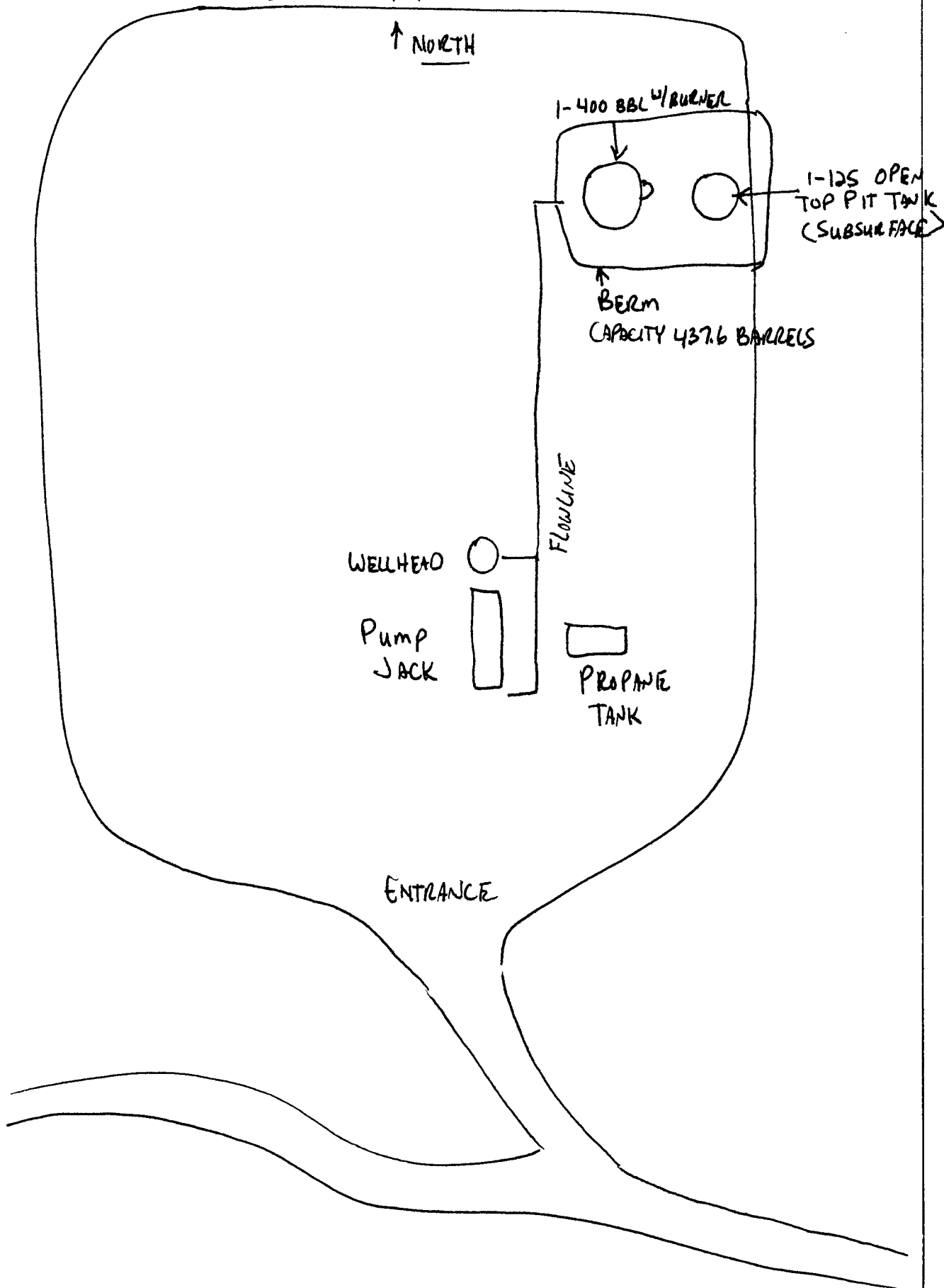
Location central battery: Qtr/Qtr: Section: Township:
Range:

Inspector: DENNIS INGRAM Date: 10/7/93

EQUITABLE RESOURCES

4-020252
43-013-31370

BALCON MONUMENT FED # 13-5
SEC 5 T9S R17E



DAILY OPERATING REPORT

BALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

10-15-92 TD: 3,208' (611') Day 6
Formation: Green River
MW 8.4 VIS 27 pH 10.6
Present Operation: Drilling
Lost returns @ 3060'. Trip for holes in DP, 41 stds
down.
DC: \$9,184 CC: \$69,364

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

10-15-92 TD: 3,208' (611') Day 6
Formation: Green River
MW 8.4 VIS 27 pH 10.6
Present Operation: Drilling
Lost returns @ 3060'. Trip for holes in DP, 41 stds
down.
DC: \$9,184 CC: \$69,364



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

October 25, 1994

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Federal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11J

Enclosed are the following items for the referenced wells:

Well Completion Report

The following items will follow under separate cover in a few days:

Site Security Diagram (Sundry Notice)

NTL2B Disposition of Produced Water (Sundry Notice)

Sincerely,

Molly Conrad
Operations Secretary

/mc

Enclosures

cc: Utah Division of Oil, Gas and Mining: Also enclosed is the
Report of Water Encountered (Utah Form 7)

RECEIVED

OCT 28 1993

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-020252

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

n/a

7. UNIT AGREEMENT NAME

Jonah Unit

8. FARM OR LEASE NAME

Balcrion Monument Federal

9. WELL NO.

#13-5

10. FIELD AND POOL, OR WILDCAT

Monument Butte / Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

NW SW

Section 5, T9S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVER. ☐ Other ☐

CONFIDENTIAL

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcrion Oil Division

3. ADDRESS OF OPERATOR

P.O. Box 21017, Billings, MT 59104 (406)259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FSL, 600' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-013-31370

DATE ISSUED

9-21-92

15. DATE SPUDDED

8-10-93

16. DATE T.D. REACHED

8-31-93

17. DATE COMPL. (Ready to prod.)

9-24-93

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*

5224' GL

19. ELEV. CASINGHEAD

n/a

20. TOTAL DEPTH, MD & TVD

5750'

21. PLUG, BACK T.D., MD & TVD

5703'

22. IF MULTIPLE COMPL., HOW MANY*

n/a

23. INTERVALS DRILLED BY

Rotary Tools

ROTARY TOOLS

Sfc - TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5610'-5516'

4789'-4804'

Green River

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MSFL-LDT-ONL-GR mud LOG 9-3-93

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	256'KB	12-1/4"	150 sxs "G" + additives	n/a
5-1/2"	15.5#	5751'	7-7/8"	166 sxs Hilift, 258 sxs "G"	n/a

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a				2-7/8"	5568.18'	n/a

31. PERFORATION RECORD (Interval, size, and number)

5610'-5516' (2 SPF)
4638'-4649' (6 shots)
4789'-4804' (8 shots)

OCT 28 1993

DIVISION OF
OIL, GAS & MINING

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5610'-5516'	500 gals 15% HCL, 15,000# 20/40 sand w/265 bbls gelled 2% KCL water
4638'-4804'	20,000# 20/40 sand & 36,700# 16/30 sand w/545 bbls 2% KCL gelled water

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
9-24-93		Pump - 1-1/2" Insert Pump					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
10-2-93	24	n/a	→	60	36	20	600	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
n/a	n/a	→	60	36	20	34		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel

TEST WITNESSED BY

Dale Griffin

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

[Signature]

TITLE

Operations Manager

DATE

October 25, 1993

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.	See Geologic Report.		

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

1. Well name and number: Balcron Monument Federal #13-5
API number: 43-013-31370

2. Well location: QQ NW SW section 5 township 9S range 17E ~~16E~~ county Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division
Address: P.O. Box 21017 phone: (406)259-7860
Billings, MT 59104

4. Drilling contractor: Molen Drilling Rig #1
Address: P.O. Box 2222 phone: (406)252-2591
Billings, MT 59104

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		No water encountered.	

6. Formation tops: See Geologic Report

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name Dave McCoskery Signature [Signature]
Title Operations Manager Date October 25, 1993

Comments:

OCT 28 1993
DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017, Billings, MT 59104 (406) 255-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E

1980' FSL, 600' FWL

5. Lease Designation and Serial No.
U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other NIL2B
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This sundry notice is to be considered as our NIL2B (Disposition of Produced Water) for this well.

Any water produced by this well will be held in a produced water tank and then hauled to a commercial disposal facility. See Site Security Diagram for location of water tank.

RECEIVED

NOV 02 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed David McCookery Title Operations Manager Date October 25, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E

1980' FSL, 600' FWL

5. Lease Designation and Serial No.

U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Grn.River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Site Security Diagram

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is the Site Security Diagram for this well.

CONFIDENTIAL

NOV 02 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Coordinator of Environmental
and Regulatory Affairs

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 11-1-93

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

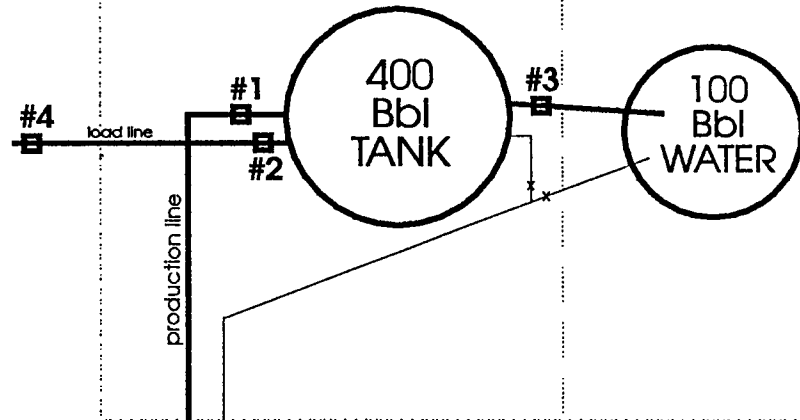
*See instruction on Reverse Side

Equitable Resources Energy Company Balcron Monument Federal 13-5 Production Facility Diagram

Balcron Monument Federal 13-5
NW SW Sec. 5, T9S, R17E
Duchesne County, Utah
Federal Lease #J-020252
1980' FSL, 600' FWL

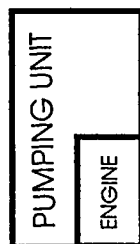


dike



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	OPEN	CLOSED
VALVE #2	CLOSED	OPEN
VALVE #3	CLOSED	CLOSED
VALVE #4	CLOSED	OPEN

WELL HEAD



2" STEEL GAS LINE

3" STEEL OIL LINE

Old Reserve Pit



DIAGRAM NOT TO SCALE



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017
(406) 259-7860



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

November 1, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Federal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11

Enclosed are our Site Security Diagrams and Sundries reporting Disposition of Produced Water for the referenced wells.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

cc: State of Utah, Division of Oil, Gas, & Mining

RECEIVED

NOV 02 1993

DIVISION OF
OIL, GAS & MINING

DAILY OPERATING REPORT

BALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

- 11-5-92 Completion
CP - 0; TP - 0. TOOH w/2-7/8" tbg & 5-1/2" csg scraper.
RU Shclumberger to bond log & perforate. Run bond log
from 4501' KB to 2890' KB & from 2150' KB to cmt top @
1920' KB. RIH w/4" x 26' perf gun. Perf w/9 shots 4303'-
07' KB .44 Dia. Perf w/20 shots 4403-97' KB, .44 dia.
Perf w/9 shots 4360-64' KB .44 Dia. TIH w/1 jt 2-7/8"
tbg, 5-1/2" packer & 147 jts 2-7/8" tbg, set packer @
4309' KB. RU Western to do break down. Pressure surface
equipment to 4500 psi - OK. Start break down, 6.4 PBM @
2200 psi. Start balls, 2 P (1138) - ball off. Surge
back. Pump for rate 2,000 psi @ 5.9 BPM. ISIP - 1000
psi. 5 min - 875 psi. RD Western. Ru Swab. Load used
67 bbls. made 11 swab runs. Recovered 39 bbls. Fluid
level stable @ 4000', last 3 runs 1% oil last 2 urn.
Load to recover 28 bbls.
DC: \$7,444 CC: \$155,846
- 11-6-92 Completion
CP - 0. MIRU Western to frac. Pressure test surface
equipment to 5100# - OK. Start frac. Frac well. ISIP -
1200 psi, 5 min - 440 psi, 10 min 190 psi, 15 min 2-
psi. Load used on job 469. Load to recover 497.
DC: \$23,495 CC: \$179,341
- 11-7-92 Completion
CP - 0 psi. TI w/1 jt 2-7/8" tbg, 5-1/2" R-3 packer, SN
& 141 jts tbg. Tag fill @ 4357' KB. Circ sand out to
PBTD. Set packer @ 4309' KB. Made 6 swab runs. Stuck
swab in tbg w/sand. Pulled loose, recovered 36 BOW.
SDFN.
DC: \$2,224 CC: \$181,565

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
 Uintah County, Utah

---TIGHT HOLE---

11-5-92 Completion
 CP - 0; TP - 0. TOOH w/2-7/8" tbg & 5-1/2" csg scraper.
 RU Schlumberger to bond log & perforate. Run bond log
 from 4501' KB to 2890' KB & from 2150' KB to cmt top @
 1920' KB. RIH w/4" x 26' perf gun. Perf w/9 shots 4303'-
 07' KB .44 Dia. Perf w/20 shots 4403-97' KB, .44 dia.
 Perf w/9 shots 4360-64' KB .44 Dia. TIH w/1 jt 2-7/8"
 tbg, 5-1/2" packer & 147 jts 2-7/8" tbg, set packer @
 4309' KB. RU Western to do break down. Pressure surface
 equipment to 4500 psi - OK. Start break down, 6.4 PBM @
 2200 psi. Start balls, 2 P (1138) - ball off. Surge
 back. Pump for rate 2,000 psi @ 5.9 BPM. ISIP - 1000
 psi. 5 min - 875 psi. RD Western. Ru Swab. Load used
 67 bbls. made 11 swab runs. Recovered 39 bbls. Fluid
 level stable @ 4000', last 3 runs 1% oil last 2 urn.
 Load to recover 28 bbls.
 DC: \$7,444 CC: \$155,846

11-6-92 Completion
 CP - 0. MIRU Western to frac. Pressure test surface
 equipment to 5100# - OK. Start frac. Frac well. ISIP -
 1200 psi, 5 min - 440 psi, 10 min 190 psi, 15 min 2-
 psi. Load used on job 469. Load to recover 497.
 DC: \$23,495 CC: \$179,341

11-7-92 Completion
 CP - 0 psi. TI w/1 jt 2-7/8" tbg, 5-1/2" R-3 packer, SN
 & 141 jts tbg. Tag fill @ 4357' KB. Circ sand out to
 PBTD. Set packer @ 4309' KB. Made 6 swab runs. Stuck
 swab in tbg w/sand. Pulled loose, recovered 36 BOW.
 SDFN.
 DC: \$2,224 CC: \$181,565

11-8-92 Completion
 Circ well clean to 4503' KB. Set packer @ 4340' KB.
 SDFN. Load to recover 461 bbls.
 DC: \$910 CC: \$182,475

11-9-92 Completion
 CP - 0, TP - 0. Tag fluid @ 1600'. Made 41 swab runs,
 recovered 246 bbls wtr w/trace of oil. Minor amount of
 frac sand on last 4 runs. Fluid stable @ 3100' last 5
 runs. Release packer, tag fill @ 4420' KB. SDFN. Load
 to recover 215 bbls.
 DC: \$3,143 CC: \$185,618

Post-It™ brand fax transmittal memo 7671 # of pages ▶

To	Oil, Gas & Mining	From	Mally Conrad
Co.	State of Utah	Co.	Balcron Oil
Dept.		Phone #	406-259-7810

DAILY OPERATING REPORTBALCRON COYOTE FEDERAL #13-5

Location: NW SW Section 5, T9S, R17E
Uintah County, Utah

---TIGHT HOLE---

11-10-92 Completion

Circ clean to 4503' KB. TOOH w/tbg & packer, TIH w/ 1 jt 2-7/8" tbg; one 2-7/8" x 4' P.S.; one SN; 140 jts 2-7/8" tbg. land mud anchor at 4342' KB. ND BOP, NU well head. TIH w/one 2-1/2 x 1-1/4 x 14-1/2 RHAC BHP; six 1" x 25' rods w/guides; 165 3/4 x 25' rods slick; one 3/4 x 8' pony; one 3/4 x 2' pony; one 1-1/4 x 16' SM polish rod. Clamp rods off. RDMO. Load to recover 215 bbls.
DC: \$11,998 CC: \$197,616

Post-It™ brand fax transmittal memo 7671		# of pages >	
To	Oil, Gas & Mining	From	Molly Conrad
Co.	State of Utah	Co.	Balcron Oil
Dept.		Phone #	406-259-7860
Fax #	801-359-3940	Fax #	406-245-1361



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

NOV 17 1993

Office: (406) 259-7860

FAX: (406) 245-1365 ☐

FAX: (406) 245-1361 ☒

DIVISION OF
OIL, GAS & MINING

November 15, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

RE: Balcron Monument Federal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #14-12J

Enclosed is a corrected Entity Action Form #6 for the subject wells.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

Equitable Resources Energy Company
Balcron Oil Division

OPERATOR

OPERATOR ACCT. NO. N9890

ADDRESS

P.O. Box 21017

Billings, MT 59104

(406) 259-7860

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	<u>11526</u>	11492	43-013-31370	Balcron Monument Federal #13-5	NW SW	5	9S	17E	Duchesne	8-10-93	8-10-93
WELL 1 COMMENTS: Please add this well to the Jonah Unit. <i>Entities added 11-18-93 See</i>											
B	<u>11511</u>	11492	43-013-31384	Balcron Monument Federal #22-5	SE NW	5	9S	17E	Duchesne	8-16-93	8-16-93
WELL 2 COMMENTS: Please add this well to the Jonah Unit.											
B	<u>11592</u>	11492	43-013-31411	Balcron Monument Federal #14-12J	SW SW	12	9S	16E	Duchesne	11-3-93	11-3-93
WELL 3 COMMENTS: Please add this well to the Jonah Unit. <i>Entity added 11-15-93 See</i>											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Robbie Schuman
Signature
Coordinator of Environmental and
Regulatory Affairs
Title
Date 11-15-93

Phone No. (406) 259-7860

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Equitable Resources Energy Company
Balcron Oil Division

ADDRESS P.O. Box 21017
Billings, MT 59104
(406) 259-7860

OPERATOR ACCT. NO. N9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	11526	11492	43-013-31370	[REDACTED]	NW SW	5	9S	17E	Duchesne	8-10-93	8-10-93
<p>WELL 1 COMMENTS:</p> <p>Please add this well to the Jonah Unit. <i>Entities added 11-18-93. Lec</i></p>											
B	11511	11492	43-013-31384	Balcron Monument Federal #22-5	SE NW	5	9S	17E	Duchesne	8-16-93	8-16-93
<p>WELL 2 COMMENTS:</p> <p>Please add this well to the Jonah Unit.</p>											
B	11492	11492	43-013-31411	Balcron Monument Federal #14-12J	SW SW	12	9S	16E	Duchesne	11-3-93	11-3-93
<p>WELL 3 COMMENTS:</p> <p>Please add this well to the Jonah Unit. <i>Entity added 11-15-93. Lec</i></p>											
<p>WELL 4 COMMENTS:</p>											
<p>WELL 5 COMMENTS:</p>											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Robbie Schuman
Signature
Coordinator of Environmental and
Regulatory Affairs
Title
Date 11-15-93

Phone No. (406) 259-7860



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

November 30, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

As requested, enclosed are sundry notices which are being resubmitted to comply with Onshore Order #7 which covers disposition of produced waters. These are being resubmitted for the following wells:

Balcron Monument Federal #32-11
Balcron Monument Federal #22-5
Balcron Monument Federal #13-5
Balcron Federal #41-21Y
Balcron Federal #21-13Y
Balcron Federal #21-9Y
Balcron Monument Federal #23-5
Balcron Monument Federal #23-11
Balcron Federal #22-10Y
Balcron Federal #44-14Y
Balcron Federal #24-3Y

These are to replace the sundry notices which were filed as NTL2B.

Also enclosed for your information is a copy of the State approval of the primary facility at which we dispose of our produced water.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT DIVISION OF
OIL, GAS & MINING

DEC 01 1993

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW SW Section 5, T9S, R17E
1980' FSL, 600' FWL

5. Lease Designation and Serial No.

U-020252

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #13-5

9. API Well No.

43-013-31370

10. Field and Pool, or Exploratory Area

Monument Butte/Grn.River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Onshore Order #7
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location from the Vernal Bureau of Land Management.

14. I hereby certify that the foregoing is true and correct

Signed Sophie Schuman
(This space for Federal or State office use)

Coordinator of Environmental
and Regulatory Affairs

Date November 30, 1993

Approved by _____
Conditions of approval, if any: _____

Title _____

Accepted by the State
of Utah Division of
Oil, Gas and Mining

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Underground Injection Control(UIC)
Permit Application
Supplement Attachment To Form ~~Four~~
UIC-1

Equitable Energy Resources Company,Balcron Oil Division.
Jonah Unit Waterflood
Duchesne County,Utah

Table Of Contents

List of Figures

Figure #1	Topographic Map - Area of Review
Figure #2	Jonah Unit, Water Injection Facilities
Figure #3	Jonah Unit Surface Ownership

List of Exhibits

Exhibit-A	Area of Review Well List
Exhibit-B	Well Data Sheets and Scout Cards
Exhibit-C	Injection Zone Perforation Intervals
Exhibit-D	Produced Water Analysis Report
Exhibit-E	Fracture Pressure Data
Exhibit-F	Jonah Unit Section-6 Injection Data
Exhibit-G	Packer Fluid Recommendation
Exhibit-H	Source Water Analysis Report
Exhibit-I	Core Analysis
Exhibit-J	Step Rate Injection Test Data
Exhibit-K	Proposed Injection Well Surface Equipment
Exhibit-L	Proposed Injection Well Completion Diagrams
Exhibit-M	Plugging and Abandonment Diagrams
Exhibit-N	Evidence of Financial Ability
Exhibit-O	Existing EPA Permits Held by Balcron Oil

4

UNDERGROUND INJECTION CONTROL (UIC)
PERMIT APPLICATION
SUPPLEMENT ATTACHMENT TO FORM FOUR

COMPANY: Equitable Resources Energy Company, Balcron Oil Division
(hereinafter referred to as Balcron Oil)
PROJECT: Jonah Unit Waterflood
Monument Butte Field
Sections 5 and 7, T9S, R17E
Duchesne County, Utah

A) AREA OF REVIEW METHODS

The area of review is a fixed radius of 1/4 mile from the proposed Jonah Unit boundary and/or proposed injection wells.

Note: The Jonah Unit waterflood includes the existing Monument Butte Section 6, T9S, R17E Waterflood which has been approved by the EPA under the Area Permit UT2642-00000. The proposed water injection wells under this application are an extension of the Monument Butte waterflood operations.

B) MAPS OF WELLS/AREA AND AREA OF REVIEW

- 1) Figure #1 - Topographic map showing the area of review. A 1/4 mile radius from the proposed injection wells is outlined with all wells in the prescribed area located and identified.

Refer to Exhibit-A for a list of wells within the area of review.

- 2) Figure #2 - Jonah Unit Water Injection Facilities Map.
- 3) Figure #3 - Surface Ownership Map showing State and Federal ownership.

All surface and minerals within the Jonah Unit waterflood boundary are owned by the Bureau of Land Management.

C) CORRECTIVE ACTION PLAN AND WELL DATA

- 1) A tabulation of well data is presented for each well within the area of review. Refer to Exhibit-B, well data sheets and scout cards.
- 2) It is proposed to inject water into multiple sands of the Green River formation using downhole choke and packer assemblies which will be landed on tubing. The annulus of the proposed injection wells will be filled with a protective corrosion inhibitor and the backside pressure will be monitored daily. If abnormal backside pressure is detected the well will be pulled to determine the source of the leak.

D) MAPS AND CROSS SECTIONS OF USDW

Does not apply to Class II injection wells.

E) NAME AND DEPTH OF USDW

There are no underground sources of drinking water or water wells in the area of review. No fresh water sources will be affected by these water injection operations. The top of the saline water bearing horizon in this area is 4800 feet to 5000 feet mean sea level which falls in the Uintah formation. This information was provided by Gil Hunt with the Utah Division of Oil, Gas and Mining. The average MSL elevation for the area of review is 5300 feet. This puts the top of the saline water horizon at 300 feet to 500 feet in depth. There are no fresh water-bearing zones in this interval for our area of review.

F) MAPS AND CROSS SECTIONS OF GEOLOGIC STRUCTURE OF AREA

Does not apply to Class II injection wells.

G) GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

1) The flooding objectives of the proposed Jonah Unit waterflood are lenticular channel sandstones which are distributed throughout the Douglas Creek Member of the Green River Formation. These sands occur over 1500 feet of vertical section at an average depth range of 4050 feet to 5550 feet. They exhibit a fining upward grain size, typical of fluvial channel deposits, with an average thickness of 20 feet. Due to the multiple potential waterflood horizons in the Douglas Creek Member, Balcron Oil is requesting approval to inject water into any or all of the occurring sands within this interval.

2) For specific injection intervals refer to the perforation intervals of each injection well outlined in Exhibit-C and the well data sheets and wellbore diagrams provided in Exhibit-B.

3) Estimated Formation Tops:

Uintah Formation	Surface to 1400 feet
Green River Formation	1400 ft to 5350 feet
Douglas Creek Member	4100 ft to 5350 feet
Douglas/Wasatch Transition	5350 ft to 6000 feet
Wasatch Formation	6000 feet

Note: The Douglas Creek interval is shown as a member within the Green River Formation.

4) The confining zones for the proposed injection interval consists of mixed continental and lacustrine shales. The Douglas Creek Member is primarily interbedded sand stringers and shale which will act as isolation barriers for the waterflood. The top confining zone is the shales of the Green River formation and the bottom confining zone is the shales of the Wasatch Formation.

5) The injection interval water quality is an analysis of the produced water from the Allen Federal #23-6. This well is perforated in most of the proposed injection sands and represents an average produced water sample. The analysis shows 14,000 mg/l chloride and 23,360 mg/l TDS. Refer to Exhibit-D for the produced water analysis report.

- 6) The average fracture gradient for the Douglas Creek Member sands is 0.861 psig/feet. This is an average of all the frac gradients calculated from jobs performed in Section 6, T9S, R17E. Refer to Exhibit-E for frac pressure and gradient data.
- 7) Calculations for the submitted frac gradients are based on the initial shut-in pressures obtained from the frac jobs performed on the Allen Federal wells in Section 6. Most frac records show that the frac sand was displaced with 2% KCl water. The hydrostatic gradient for the 2% KCl water was calculated at 0.43836 psig/feet. This gradient was used to calculate the hydrostatic head of the KCl water and was added to the ISIP. The frac gradient was then calculated by dividing the sum of these pressures by the average of the perforation depth.

$$\text{Frac Gradient} = (\text{ISIP} + 0.43836 \text{ psig/ft}(\text{Depth}))/\text{Depth}$$

- 8) Logs for the proposed water injection wells are enclosed with this application.
- 9) The proposed water injection wells were drilled with a rotary rig using a conventional water-based mud and/or an air mist to an average total depth of 6000 feet. Production casing was run through the productive sands of the Green River formation and cemented to a point well above the uppermost sand. The wells were then perforated, hydraulically fractured, and put on production. Refer to the well data sheets presented in Exhibit-B for specific completion details of each well.

H) OPERATING DATA

- 1) Average water injection volume of 250 STBWPD.
Maximum water injection volume of 600 STBWPD.
- 2) Average estimated injection pressure of 1690 psig.
Maximum estimated injection pressure of 2000 psig.

The injection pressures for the Jonah Unit waterflood are estimated by analogy with Balcron Oil's existing Monument Butte waterflood located in Section 6, T9S, R17E, Duchesne County, Utah. This waterflood is injecting water into the same formation with similar reservoir conditions as the proposed water injection wells. Refer to Exhibit-F for Section 6 injection data.

- 3) The annulus of the proposed injection wells will be filled with a protective corrosion inhibitor (Cortron R-2383) supplied by Champion Technologies, Inc. The recommended chemical will be mixed with fresh water at a concentration of two percent by volume. A diesel blanket of approximately one barrel will be placed on the backside to prevent the valves from freezing. Refer to Exhibit-G for the recommendation of packer fluid.
- 4) Water for the Jonah Unit waterflood will be fresh potable water supplied by the Johnson Water Association out of Myton, Utah. The water will be piped from the Johnson facility approximately 7.5 miles through a six-inch fiberglass supply line which is owned and operated by Balcron Oil. The source for this water supply is the Starvation Reservoir which is owned by the Bureau of Reclamation,

Central Utah Project. The water is gathered from the Strawberry and Duchesne Rivers into the reservoir just west of the city of Duchesne, Utah, and sold accordingly. The analysis for this water shows 300 mg/l chloride and 1429 mg/l TDS with a specific gravity of 1.00. Chemicals will be added to the water to reduce oxygen and to prevent corrosion and scaling. The proposed chemicals will be supplied by Champion Technologies and are referred to as Scortron GR-72 and Cortron-178. Refer to Exhibit-H for the analysis of the proposed injection water.

- 5) As the waterflood progresses and water breakthrough occurs, it is proposed to inject the produced water back into the formation. Due to the fresh initial injection water, this produced water should also be relatively fresh. When it is time to inject this produced water the EPA will be notified by letter and a water analysis will be submitted.

I) FORMATION TESTING PROGRAM

- 1) The porosity of the injection sands averages approximately 14%. The porosity is determined using compensated neutron/density porosity logs and core analysis. The core analyses are from the Allen Federal #34-5, Paiute Federal #24-8, and Paiute Federal #34-8. These wells are located outside the Jonah Unit boundary; however, they represent similar reservoir conditions and depositional environment. Refer to Exhibit-I for the core analysis.
- 2) The permeability of the injection sands ranges from 0.01 to 18 md with an average of approximately 4.4 md.
- 3) A mechanical integrity test will be conducted on all proposed water injection wells prior to conversion. The casing will be integrity tested by setting a tubing conveyed packer just above the perforations and pressuring the annulus to 500 psig. The pressure will be held for a one-hour test. The results of the mechanical integrity tests will be submitted to the EPA prior to water injection.
- 4) A four-point injection test was performed on the existing Allen Federal #13-6 injection well which indicates a surface injection parting pressure of approximately 2080 psig. Refer to Exhibit-J for the results of the step rate test.
- 5) Fracture treating rates, average and maximum pressure, ISIP, and frac gradients have been tabulated for the area of review and are presented on the well data sheets in Exhibit-B.
- 6) The present reservoir pressure is approximately 800 psig. This pressure is estimated from fluid levels and hot oiling operations.

J) STIMULATION PROGRAM

Several existing wells proposed for water injection will have zones reperforated with 2 shots per foot and/or have additional perforations added. The reperforated zones will be broken down with 500 gals of 15% HCl acid using ball sealers. The additional perforated zones will be broken down with 500 gals of 15% HCl acid

8

using ball sealers and then hydraulically fractured with approximately 12,500 gallons of gelled water and 15,000 lbs of 16-30 mesh sand. Refer to Exhibit-C for injection well perforations and proposed perforations.

K) INJECTION PROCEDURES

- 1) The injection procedure for the Jonah Unit waterflood will be as follows:

- Water from the Johnson Water Association will be piped to our facility approximately 7.5 miles.

- The water will be filtered with 75 micron filters before entering the water storage tank at the water injection plant.

- A triplex injection pump will be used to pressurize the water to approximately 2500 psig.

- The pressurized water will travel through a four-inch injection manifold and out to the well feed lines.

- Each feed line will supply from one to four injection wells.

- Each injection well will be equipped with a metering and choking system for adjusting flowrates. A check valve will also be installed on every well. Refer to Section-M, Construction Details.

- The water will pass down the tubing to downhole choke assemblies which will regulate the amount of water that can enter each injection zone. Note: Injection assemblies will vary according to sand quality and reservoir conditions.

- 2) The injection facility will be equipped with pressure monitoring and safety shut-down devices to protect against high or low pressure failures. It will also have tank level, oil, temperature, and other safety shut-down devices.

L) CONSTRUCTION PROCEDURES

There are no proposed wells for the area of review at this time.

M) CONSTRUCTION DETAILS

- 1) Refer to Exhibit-K for the proposed well surface injection equipment.
- 2) Refer to Exhibit-B for well data sheets and to Exhibit-L for a wellbore diagram of each proposed injection well.
- 3) The injection wells will be equipped with 2-7/8 inch tubing with tension packers set to isolate the injection zones. Each well will be equipped with one or more packers to isolate the injection zones as required. Refer to Exhibit-L for the packer setting depths proposed for each water injection well.

N) CHANGES IN INJECTION FLUID

As the waterflood progresses and water breakthrough occurs, it is proposed to inject the produced water back into the formation. Due to the fresh initial injection water, this produced water should also be relatively fresh. When it is time to inject this produced water the EPA will be notified by letter and a water analysis will be submitted. At this time it is not feasible to make estimates as to the volume or quality of the produced water.

O) PLANS FOR WELL FAILURES

All injection wells and related facilities will be monitored daily for integrity. The backside pressure will be checked daily and if abnormal backside pressure is detected the well will be investigated to determine the source of the leak. If a casing leak is found the leak will be isolated and squeezed with cement. The casing will be checked for mechanical integrity to ensure that the squeeze job repaired the leak. If a leak cannot be repaired the well will either be returned to production and pumped off or plugged and abandoned according to the procedure outlined in Section-Q.

P) MONITORING PROGRAM

The waterflood will be monitored through the existing oil production wells. Each production well will be monitored for waterflood response and records of daily oil and water production will be kept. Fluid levels will be shot when possible to monitor reservoir pressure and flood advancement. Refer to Figure-1 and Figure-2 for the location of these oil production wells.

Q) PLUGGING AND ABANDONMENT PLAN

- 1) The Panda plan proposed consists of running into the well with tubing and washing the well out to TD to ensure that the perforations are clear. If the well is not dead, mud will be mixed on location to a sufficient weight for killing the well. The mud will be circulated down the tubing and into the casing until the water has been displaced and/or the well has been killed. The well will then have a balanced cement plug using approximately 260 sacks of class-G cement placed over the Douglas Creek Member of the Green River Formation (i.e. over the perforation interval) from TD to a point at least 300 feet above the uppermost perforation. The top of the first cement plug will be at a depth of approximately 3800 feet. The tubing will be pulled out of the hole and the production casing will be perforated for two feet with four shots per foot at a point 100 feet below the surface casing shoe. Circulation will be established to surface, down the casing and up the annulus via the perforations. Cement will be circulated to fill the production casing and the annulus from the perforations to the surface using 100 sx of class-G cement. The top of the second cement plug will be at the surface and the bottom will be 100 feet below the surface casing shoe. A permanent marker will be set identifying the well name, lease, location, elevation, and plugging date.

Note: Newly-drilled wells that have been cemented to surface across the surface casing shoe will have three balanced cement

plugs placed and will not be perforated below the surface casing shoe. Refer to the individual P & A plans and diagrams.

2) Refer to Exhibit-M for plugging and abandonment plan and diagrams.

R) NECESSARY RESOURCES

Refer to Exhibit-N for evidence of financial ability to plug and abandon the proposed injection wells.

S) AQUIFER EXEMPTION

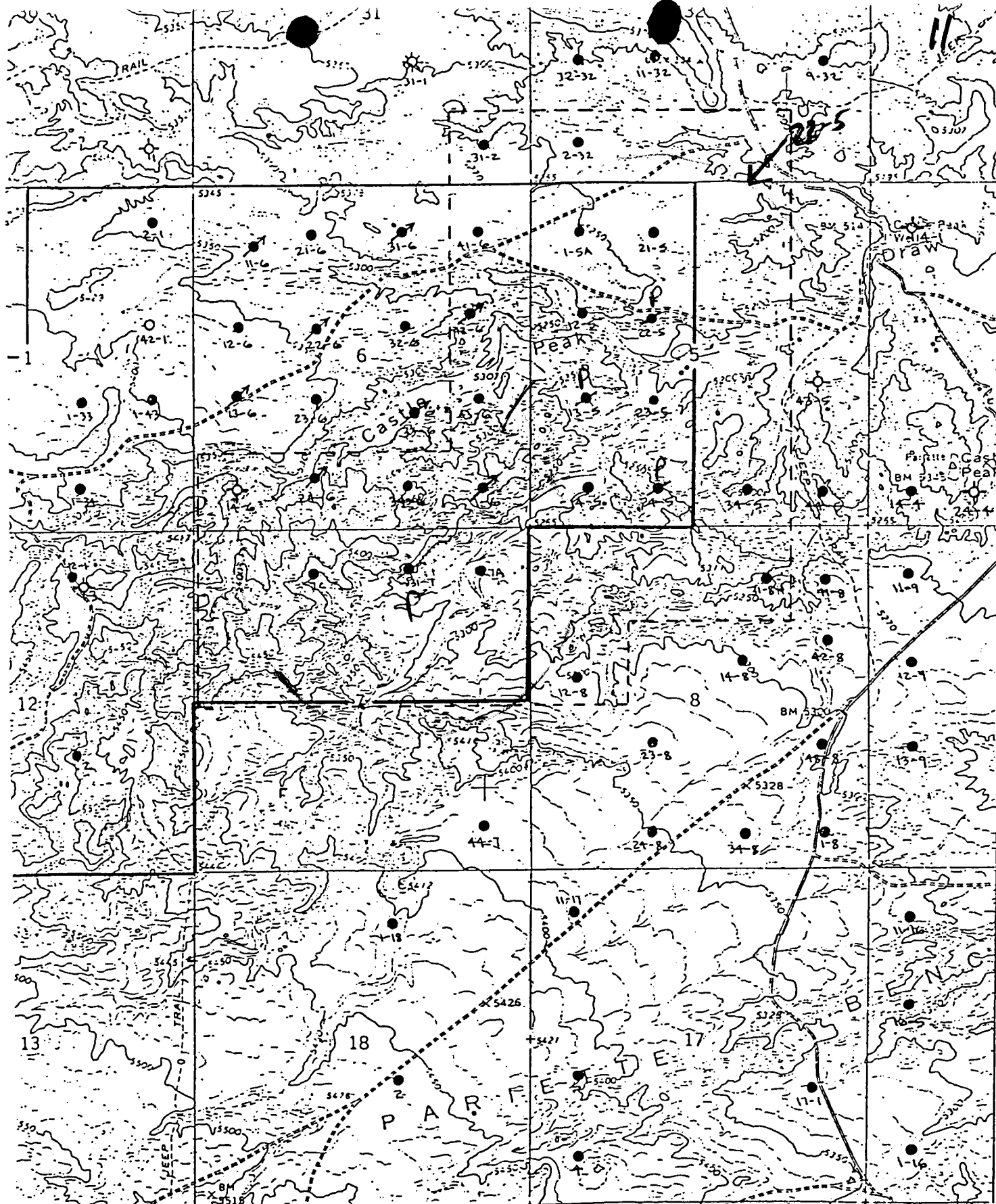
No aquifer exemption is requested.

T) EXISTING EPA PERMITS

Refer to Exhibit-O for existing EPA permits held by Balcron Oil.

U) DESCRIPTION OF BUSINESS

Balcron Oil is an independent oil and gas production company located in Billings, Montana. Balcron Oil employs engineers, geologists, and a field staff with the knowledge and technical experience required to maintain and operate the proposed facilities.



LEGEND

- * UNIT INTERVAL OIL/GAS WELL
- + UNIT INTERVAL DRY HOLE
- UNIT INTERVAL ABANDON PRODUCER
- ⌘ INJECTION WELL (Proposed)
- SHUT IN PRODUCER
- PROPOSED LOCATION
- ⊙ Injection Well (Existing)

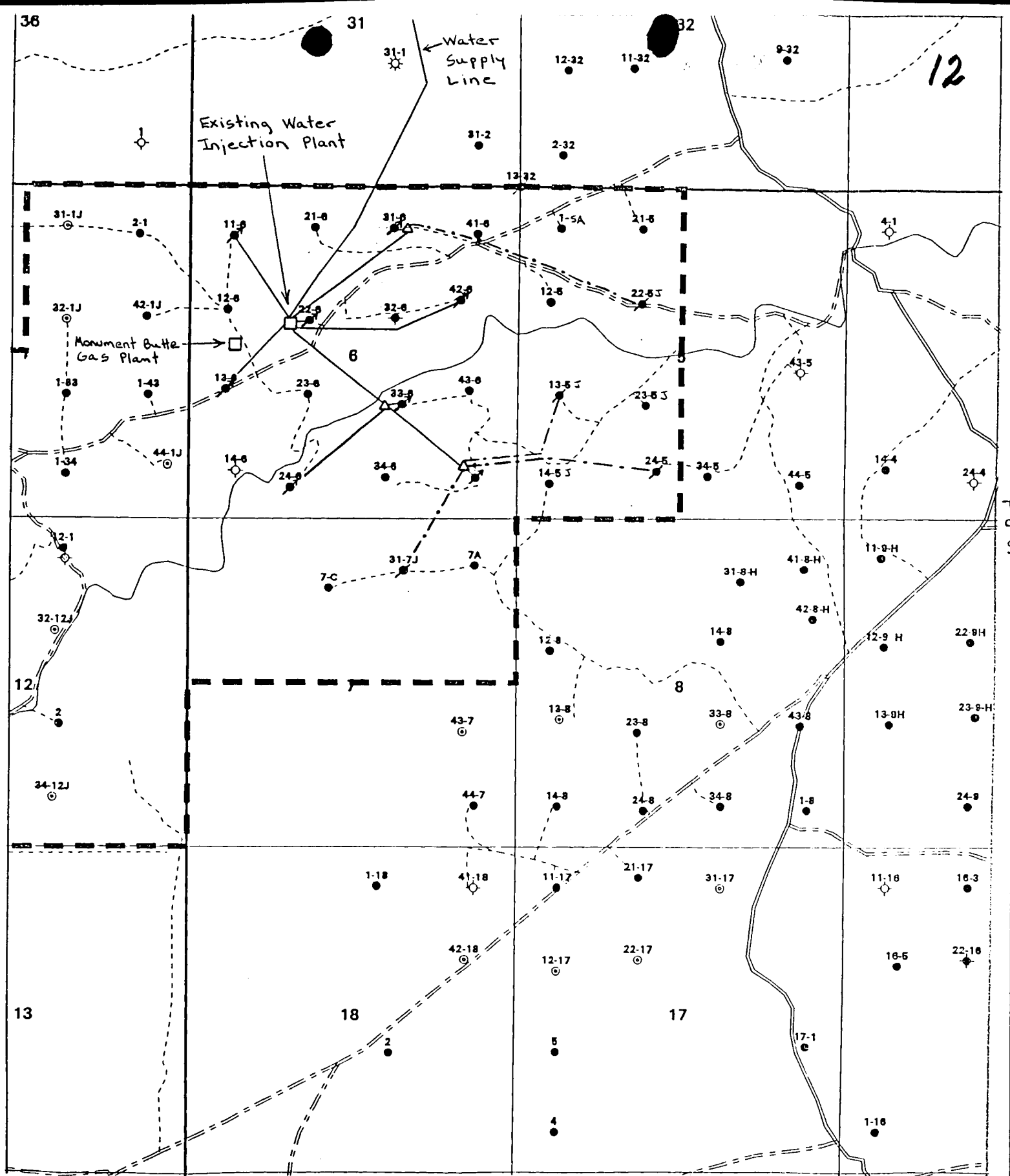
————— Jonah Unit Boundary

----- Area of Review

3-7 - 3P 3I
 24-5 - 5P 2I
 13-5 4P 4I

Equitable Resources Energy Company
 Balcon Oil Division
 Jonah Unit
 Monument Butte Field
 Area of Review
 Figure-1

32 2-17-94



LEGEND

- * UNIT INTERVAL OIL/GAS WELL
 - ✦ UNIT INTERVAL DRY HOLE
 - UNIT INTERVAL ABANDON PRODUCER
 - ✧ INJECTION WELL (Proposed)
 - SHUT IN PRODUCER
 - PROPOSED LOCATION
-
- ✧ Injection Well (Existing)

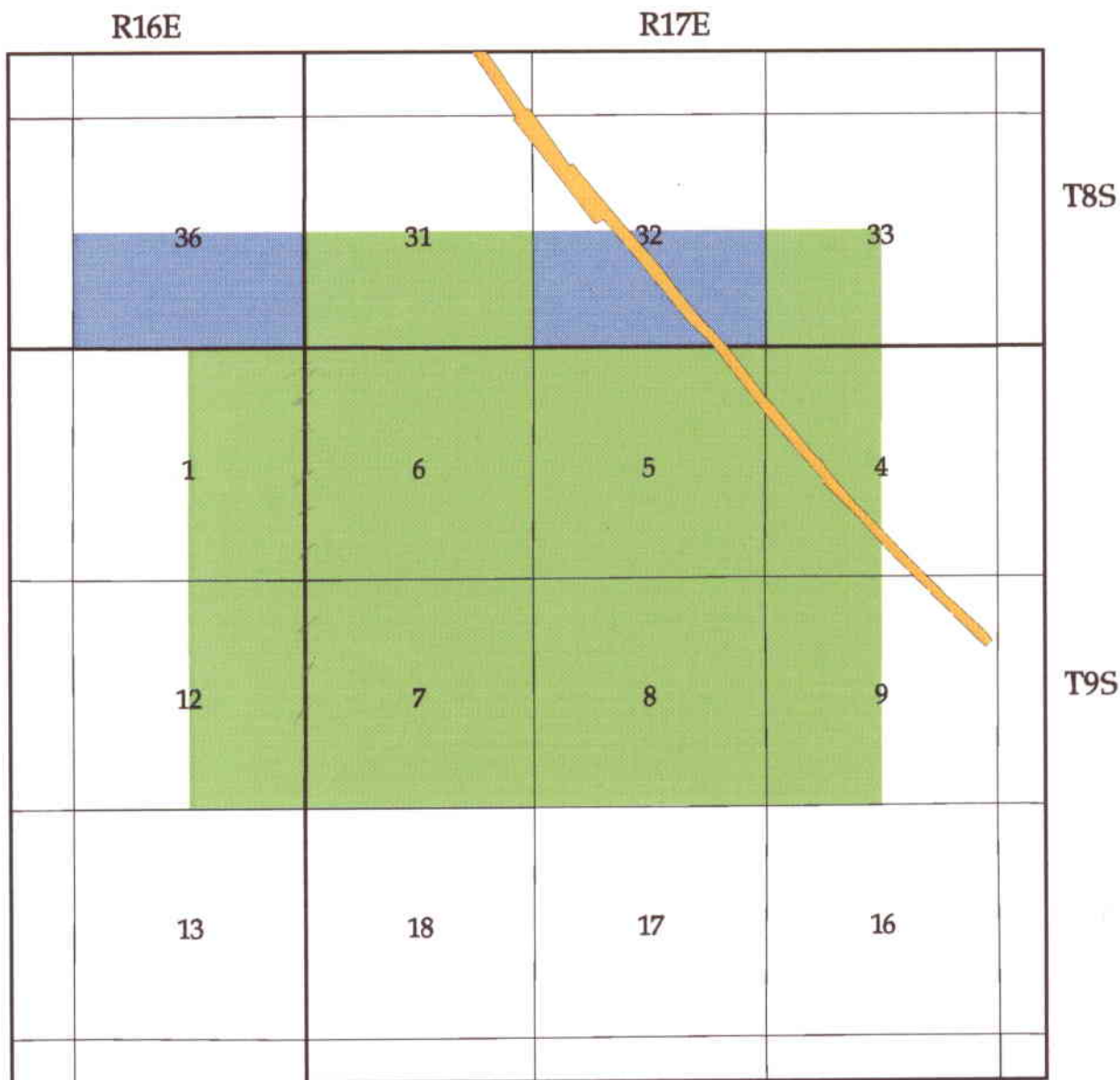
- - - - - Lease Roads
 _____ Existing Injection Lines
 - - - - - Proposed Injection Lines
 Δ Injection Manifolds




EREC / Balcon Oil Division
Jonah Unit
Monument Butte Field
Water Injection Facilities
Figure - 2

ΣΖ

2-17-94

Scale 1:48000



-  State Utah Surface
-  Federal Utah Surface
-  Fee Surface Patented Mining Claim

Balcron Oil
Figure 3
Surface Ownership Map

Duchesne County, Utah
 February 18, 1994
 Scale 1:48000

17

Exhibit - A
Area of Review Well List
Jonah Unit Waterflood

Well Name	Operator	Location
15 Oil & Gas Wells.		
Allen Federal #34-6	Balcron	SW SE Sec.6,T9S,R17E
Allen Federal #41-6	Balcron	NE NE Sec.6,T9S,R17E
Allen Federal #43-6	Balcron	NE SE Sec.6,T9S,R17E
Allen Federal #1-5A	Balcron	NW NW Sec.5,T9S,R17E
Allen Federal #12-5	Balcron	SW NW Sec.5,T9S,R17E
Balcron Monument Fed. #14-5J	Balcron	SE SE Sec.5,T9S,R17E
Allen Federal #21-5	Balcron	NE NW Sec.5,T9S,R17E
Balcron Monument Fed. #23-5J	Balcron	NE SW Sec.5,T9S,R17E
Allen Federal #34-5	Balcron	SW SE Sec.5,T9S,R17E
Getty #7A	Balcron	NE NE Sec.7,T9S,R17E
Getty #7C	Balcron	NE NW Sec.7,T9S,R17E
Federal #12-8	PG&E	SW NW Sec.8,T9S,R17E
Federal #31-8H	PG&E	NW NE Sec.8,T9S,R17E
Gov't #31-2	Campbell G S	SE SE Sec.31,T8S,R17E
State #2-32	Lomax Expl.	SW SW Sec.32,T8S,R17E

Four Oil Wells Proposed For Conversion To Water Injection.

Balcron Monument Fed. #13-5J	Balcron	NW SW Sec.5,T9S,R17E
Balcron Monument Fed. #22-5J	Balcron	SE NW Sec.5,T9S,R17E
Balcron Monument Fed. #24-5	Balcron	SE SW Sec.5,T9S,R17E
Balcron Monument Fed. #31-7J	Balcron	NW NE Sec.7,T9S,R17E

Three Water Injection Wells.

Allen Federal #1-6	Balcron	SE SE Sec.6,T9S,R17E
Balcron Monument Fed. #24-6	Balcron	SE SW Sec.6,T9S,R17E
Balcron Monument Fed. #42-6	Balcron	SE NE Sec.6,T9S,R17E

One Plugged & Abandoned Well.

Allen Federal #14-6	Balcron	SW SW Sec.6,T9S,R17E
---------------------	---------	----------------------

Exhibit - B
Well Data Sheets and Scout Cards

BALCRON OIL

WELL REPORT

WELL NAME: Balcron Monument Federal #13-5
 FIELD: Monument Butte/Jonah Unit
 FEDERAL LEASE NO.: #U-020252
 LOCATION: NW SW Sec.5,T9S,R17E
 COUNTY/STATE: Duchesne County, Utah
 WORKING INTEREST: 0.79942652
 PRODUCING FORMATION: Green River
 COMPLETION DATE: 9-24-93
 INITIAL PRODUCTION: 60 STBOPD, 20 STBWPD, 36 MCFFPD
 OIL/GAS PURCHASER: Amoco/Universal Resources
 PRESENT PROD STATUS: 17 STBOPD, 0 MCFFPD, 0 STBWPD
 ELEVATIONS - GROUND: 5223'
 TOTAL DEPTH: 5750' KB

DATE: 2-18-94 lac
 API NO.: 43-013-31370

NET REVENUE INT.: 0.72981781 Oil
 0.65881769 Gas
 SPUD DATE: 8-10-93
 OIL GRAVITY: 34 API
 BHT: 139 Deg.F

KB: 5236' (13' KB)
 PLUG BACK TD: 5703' KB

SURFACE CASING

STRING: 1
 CSG SIZE: 8 5/8"
 GRADE: J-55
 WEIGHT: 24 lbs.
 LENGTH: 6 jts @ 246.10'
 DEPTH LANDED: 256' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 150 sxs Class "G"
 Cement to Surface

PRODUCTION CASING

STRING: 1
 CSG SIZE: 5 1/2"
 GRADE: K-55
 WEIGHT: 15.5 lbs.
 LENGTH: 133 jts @ 5758.95'
 DEPTH LANDED: 5751' KB
 HOLE SIZE: 7 7/8"
 CEMENT DATA: 166 sxs Hilift &
 258 sxs Class "G"
 CEMENT TOP AT: 2570' KB from CBL

TUBING RECORD

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5#
 NO. OF JOINTS: 178 jts @ 5532.38'
 TUBING ANCHOR: None
 NO. OF JOINTS: NA
 SEATING NIPPLE: 2 7/8" x 1.10'
 PERF. SUB: 2 7/8" x 3'
 MUD ANCHOR: 2 7/8" x 31.50'
 TOTAL TUBING LENGTH: 5568.18'
 SN LANDED AT: 5581.18' KB

SUCKER ROD RECORD

1 - 1 1/4" x 16' Polished Rod SM
 1 - 3/4" x 2' Pony
 2 - 3/4" x 4' Ponies
 2 - 3/4" x 6' Ponies
 214 - 3/4" x 25' Grade D Plain Rods
 6 - 1" x 25' EL Rods w/2 1/2 Riton Guides

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC
 STROKE LENGTH: 86" Stroke
 PUMP SPEED, SPM: 4.5 SPM
 PUMPING UNIT SIZE:

PERFORATION RECORD

4638'-4649' (11') 6 shots Red 1
 4789'-4804' (15') 8 shots Red 5
 5510'-5516' (6') 2 SPF Blue 1
 5510'-5516' (6') 2 SPF RE-PERF

Proposed Reperf:
 4638'-4648' w/2 SPF
 4788'-4804' w/2 SPF

Proposed Additional Perfs:
 5106'-5110' w/2 SPF Green 4

BREAKDOWN/ACID JOB

SEE NEXT PAGE

FRAC JOB

SEE NEXT PAGE

LOGS: Dual Laterolog, Micro-Spherically Focused
 Log, Compensated Neutron, Gamma Ray

Balcron Monument Federal #13-5
 Monument Butte/Jonah Unit
 NW SW Sec.5,T9S,R17E
 Duchesne County, Utah

BREAK DOWN/ACID JOB

4638'-4649', Halliburton, Initial break @ 3000
 psig @ 2.4 BPM, start 1 ball per BOW. 1700
 psig @ \$ BPM. No ball off, surge balls back,
 Pump for rate 6.2 BPM @ 2500 psig.
 4789'-4804', Initial break 2800 to 2500 psig
 @ 4 BPM, Start 1 ball per BOW. Ball off, surge
 balls back. Pump for rate 4.4 BPM @ 2500 psig.
 5510'-5516', Western, initial break @ 3200
 psig @ .5 BPM. Break back to 2600 psig, start
 balls, 1 ball/bbl, pump 4 BOW, 4 balls. Press
 climbed to 4000 psig, pumped ttl of 9 balls,
 26 BOW, End press 4000 psig @ .2 BOW/minute.
 5510'-5516', Western, pump 500 gal HCL w/1
 ball per bbl. Pump 12 bbls of acid. Try to
 pump acid on formation, 4000 psig, would not
 pump. (Re-Perf.)
 5510'-5516' Start 15% HCL acid, 500 gals, 1
 ball per bbl, avg 4 BPM @ 2200 psig, max 6.4
 BPM @ 4100 psig, ISIP @ 1500 psig.

FRAC JOB

4638'-4804', Frac w/Western on 9-10-93.
 20,454 gals gelled water w/20,000 lbs
 20-40 sand & 36,700 lbs 16-30 sand.
 Avg 24.5 BPM @ 2700 psig, Max 32.8 BPM
 @ 3040 psig. ISIP @ 2500 psig, 5 min
 @ 1950 psig, 10 min @ 1880 psig,
 15 min @ 1820 psig.
 5510'-5516', Frac w/Western on 9-3-93.
 10,290 gals Viking I #35 w/15,000 lbs.
 20-40 sand. Avg 19.8 BPM @ 1990 psig,
 Max 20.2 BPM @ 2140 psig. ISIP @ 1750
 psig, 5 min @ 1560 psig, 10 min @ 1430
 psig, 15 min @ 1400 psig.

BALCRON MONUMENT FEDERAL #13-5
NW SW SEC.5,T9S,R17E
Lease No. #U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

BALCRON OIL
2-18-94 lac

Wellbore Diagram

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 246.10'
Landed @ 256' KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#
133 jts @ 5758.95'
Landed @ 5751' KB
Cemented w/166 sxs Hilift &
259 sxs Class "G"
Cement top @ 2570' KB from CBL
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#
178 jts @ 5532.38'
SN @ 2 7/8" x 1.10'
Perf Sub @ 2 7/8" x 3'
Mud Anchor @ 2 7/8" x 31.50'
Total Tbg Length @ 5568.18'
SN Landed @ 5581.18' KB

SUCKER ROD RECORD

1 - 1 1/4" x 16' Polished Rod SM
1 - 3/4" x 2' Pony
2 - 3/4" x 4' Ponies
2 - 3/4" x 6' Ponies
214 - 3/4" x 25' Grade D Plain Rods
6 - 1" x 25' EL Rods w/2 1/2 Riton Guides

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC
STROKE LENGTH: 86" Stroke
PUMP SPEED, SPM: 4.5 SPM
PUMPING UNIT SIZE:

LOGS: Dual Laterolog, Micro-Spherically Focused
Log, Compensated Neutron, Gamma Ray

BREAK DOWN/ACID JOB

4638'-4649', Halliburton, Initial break @ 3000
psig @ 2.4 BPM, start 1 ball per BOW. 1700
psig @ \$ BPM. No ball off, surge balls back,
Pump for rate 6.2 BPM @ 2500 psig.
4789'-4804', Halliburton, Initial break 2800
to 2500 psig @ 4 BPM, Start 1 ball per BOW.
Ball off, surge balls back. Pump for rate 4.4
BPM @ 2500 psig.
5510'-5516', Western, initial break @ 3200
psig @ .5 BPM. Break back to 2600 psig, start
balls, 1 ball/bbl, pump 4 BOW, 4 balls. Press
climbed to 4000 psig, pumped tll of 9 balls,
26 BOW, End press 4000 psig @ .2 BOW/minute.
5510'-5516', Western, pump 500 gal HCL w/1
ball per bbl. Pump 12 bbls of acid. Try to
pump acid on formation, 4000 psig, would not
pump. (Re-Perf.)
5510'-5516' Start 15% HCL acid, 500 gals, 1
ball per bbl, avg 4 BPM @ 2200 psig, max 6.4
BPM @ 4100 psig, ISIP @ 1500 psig.

FRAC JOB

4638'-4804', Frac w/Western on 9-10-93.
20,454 gals gelled water w/20,000 lbs
20-40 sand & 36,700 lbs 16-30 sand.
Avg 24.5 BPM @ 2700 psig, Max 32.8 BPM
@ 3040 psig. ISIP @ 2500 psig, 5 min
@ 1950 psig, 10 min @ 1880 psig,
15 min @ 1820 psig.

5510'-5516', Frac w/Western on 9-3-93.
10,290 gals Viking I #35 w/15,000 lbs.
20-40 sand. Avg 19.8 BPM @ 1990 psig,
Max 20.2 BPM @ 2140 psig. ISIP @ 1750
psig, 5 min @ 1560 psig, 10 min @ 1430
psig, 15 min @ 1400 psig.

PERFORATION RECORD

4638'-4649' (11') 6 shots Red 1
4789'-4804' (15') 8 shots Red 5
5510'-5516' (6') 2 SPF Blue 1
5510'-5516' (6') 2 SPF RE-PERF

PBTD @ 5703' KB
TD @ 5750' KB

(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
other instructions on
reverse side)

Budget Form No. 1004-0
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REMOV. <input type="checkbox"/> Other <input type="checkbox"/>		12. COUNTY OR PARISH Duchesne		13. STATE UTAH	
2. NAME OF OPERATOR Equitable Resources Energy Company, Buleran Oil Division				14. PERMIT NO. 43-013-31370			
3. ADDRESS OF OPERATOR P.O. Box 21017, Billings, MT 59104 (406)259-7860				DATE ISSUED 9-21-92			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FSL, 600' FWL At top prod. interval reported below At total depth				5. LEASE DESIGNATION AND SERIAL U-020252 63 6. IF INDIAN, ALLOTTEE OR TRIBAL n/a 7. UNIT AGREEMENT NAME Jonah Unit 8. FARM OR LEASE NAME Buleran Monument Federal 9. WELL NO. #13-5 10. FIELD AND POOL, OR WILDCAT Monument Butte / Green River 11. SEC., T., R., N., OR BLOCK AND SUB-OR AREA NW SW Section 5, T9S, R17E			
15. DATE SPUDDED 8-10-93		16. DATE T.D. REACHED 8-31-93		17. DATE COMPL. (Ready to prod.) 9-24-93		18. ELEVATIONS (OF, RKB, RT, OR, ETC.)* 5224' GL	
20. TOTAL DEPTH, MD & TVD 5750'		21. PLUG, BACK T.D., MD & TVD 5703'		22. IF MULTIPLE COMPL., HOW MANY* n/a		23. INTERVAL DRILLED BY Sfc - TD	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5610'-5516' 4638'-4649' 4789'-4804' Green River				25. WAS WELL CORED No			
26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MSFL-LDF-CNL-QR				27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8-5/8"		24#		256'KB		12-1/4"	
5-1/2"		15.5#		5751'		7-7/8"	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		BACKS CEMENT*	
n/a							
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2-7/8"		5568.18'		n/a			
31. PERFORATION RECORD (Interval, size and number)							
5610'-5516'		(2 SPF)					
4638'-4649'		(6 shots)					
4789'-4804'		(8 shots)					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED					
5610'-5516'		500 gals 15% HCL, 15,000# 20/40 s w/265 bbls gelled 2% KCL water					
4638'-4804'		20,000# 20/40 sand & 36,700# 16/30 w/545 bbls 2% KCL gelled water					
33. PRODUCTION							
DATE FIRST PRODUCTION 9-24-93		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump - 1-1/2" Insert Pump				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 10-2-93		HOURS TESTED 24		CHOKED SIZE n/a		PROD. FOR TEST PERIOD OIL—BBL. 60 GAS—MCF. 36 WATER—BBL. 20 GAS-OIL RATIO 600	
FLOW, TUBING PRESS. n/a		CASING PRESSURE n/a		CALCULATED 24-HOUR RATE OIL—BBL. 60 GAS—MCF. 36 WATER—BBL. 20 OIL GRAVITY-API (CORR.) 34			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel						TEST WITNESSED BY Dale Griffin	
35. LIST OF ATTACHMENTS							

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Operations Manager DATE October 25, 1993

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Exhibit - C
Proposed Water Injection Wells
Injection Zone Perforation Intervals
Jonah Unit Waterflood

Four Oil Wells Proposed For Conversion To Water Injection.

Well name	Injection Zone Perforations.
Balcron Monument Fed. #13-5J	4638'- 4649'(6 Shots), 4789'- 4804'(8 Shots), 5510'- 5516' w/ 2 SPF
	Proposed Reperforation: 4638'- 4648' w/ 2 SPF 4788'- 4804' w/ 2 SPF
	Proposed Additional Perforation: 5106'- 5110' w/ 2 SPF
Balcron Monument Fed. #22-5J	4890', 4894', 4895', 4900', 4905', 4906', 5041', 5042', 5043', 5044', 5048' w/ 1 Shot Each
	Proposed Reperforation: 4888'- 4896' w/ 2 SPF 5040'- 5050' w/ 2 SPF
Balcron Monument Fed. #24-5	4064'- 4072'(3 Shots), 4107'-4122'(4 Shots), 4174'- 4184'(4 Shots), 4700'- 4708' w/ 2 SPF, 4749'- 4760', 5044'- 5049' w/ 2 SPF 5061'- 5069', 5480'- 5496' w/ 2 SPF
Balcron Monument Fed. #31-7J	4903'- 4910', 4914'- 4917', 5050'- 5055', 5062'- 5064', 5080'- 5086', 5100'- 5106' w/ 2 SPF

Note: The Balcron Monument Federal #24-5 will not have water injected into the perforations from
4064'- 4072', 4107'- 4122', 4174'- 4184'.
These zones will not be injected into at this time and will be isolated from the other
injection zones with packers.



2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

EXHIBIT "D"
WATER ANALYSIS REPORT

Report for: John Zelletti
cc for: Steve Hanberg
cc for:
cc for:
Company: Balcron Oil
Address: Billings Montana
Service Engineer: Mike Angus
Date Sampled: 7-14-92
Date Reported: 7-15-92
Location: Allen Federal 23-6
County: Duchesne County
State: - Utah
Submitted by: Mike Angus
Other Info: - Produced water sample

Chemical Component	mg per liter	meq per liter
Chloride (Cl) =	14000.	394.9
Iron (Fe) =	1.9	
Total Hardness (CaCO ₃) =	80.	
Calcium (Ca) =	24.	1.2
Magnesium (Mg) =	5.	0.4
Bicarbonate (HCO ₃) =	171.	2.8
Carbonate (CO ₃) =	30.	1.0
Sulfate (SO ₄) =	1.	0.0
Hydrogen Sulfide (H ₂ S) =	1.7	
Barium (Ba) =	Negligible	
Sodium (Na) (calc.) =	9129.	397.1
Specific Gravity =	1.016	
Density (lb/gal) =	8.46	
pH (by meter) =	9.2	
Dissolved CO ₂ (mg/l) =	0.	

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

Scaling Index at 68 degrees F = +0.25
Scaling Index at 86 degrees F = +0.48
Scaling Index at 122 degrees F = +0.90
Scaling Index at 158 degrees F = +1.49

Total dissolved solids (calculated) = 23360. mg per liter

Reported by William Curry Lab Technician
William Curry

Exhibit - E
Jonah Unit Waterflood
Fracture Pressure Data

Well Name	Average Rate (BPM)	Average Pressure (PSIG)	Maximum Pressure (PSIG)	Initial Shut In Pressure (PSIG)	Average Depth (FEET)	Fracture Gradient (PSIG/FT)
ALLEN FEDERAL #12-6	20.0	1800	2200	1800	4314	0.86
	20.0	1950	2150	1950	4841	0.84
	20.0	1800	2700	2070	5290	0.83
	15.0	1700	2400	1930	5670	0.78
ALLEN FEDERAL #21-6	15.8	2100	2600	2200	5201	0.86
	31.0	2100	2300	2100	5338	0.83
ALLEN FEDERAL #23-6	20.0	1800	1875	1800	4800	0.81
	20.0	2000	2050	2000	4899	0.85
	20.0	1975	2200	1950	5252	0.81
ALLEN FEDERAL #32-6	55.0	2200	2950	2010	4268	0.91
	34.0	2400	2600	2000	5083	0.83
ALLEN FEDERAL #34-6	30.0	2000	2180	1960	4702	0.86
	31.2	1900	2150	1710	4874	0.79
	35.0	2400	2580	2190	5196	0.86
ALLEN FEDERAL #41-6	32.0	2100	2630	2400	4300	0.99
	25.0	2000	2600	2000	4757	0.86
	25.0	1600	2000	1700	4925	0.78
	18.0	3700	4400	1850	5065	0.80
	17.0	2000	4000	4000	5248	1.20
ALLEN FEDERAL #43-6	30.0	3000	3100	1950	4704	0.85
	15.0	2000	2500	2050	4832	0.86
	31.0	2200	2500	1900	5173	0.81
ALLEN FEDERAL #12-5	20.0	1850	2050	1800	4177	0.87
	25.0	1800	2400	1850	4852	0.82
	10.0	4600	6000	3400	5014	1.12
	20.2	1950	2250	1960	5153	0.82
ALLEN FEDERAL #21-5	15.0	1900	2400	2100	4203	0.94
	15.0	1700	2300	2100	4817	0.87
	15.0	1900	2300	2300	5083	0.89
	15.0	1500	2050	1900	5250	0.80
MONUMENT BUTTE #1-43	18.5	2300	3700	2900	5918	0.93
	35.0	2040	2240	2010	5066	0.78
ALLEN FEDERAL #13-6	25.0	1850	2800	2200	4756	0.90
	21.5	2400	2840	2280	5060	0.89
ALLEN FEDERAL #22-6	30.0	1960	2870	1750	4917	0.79
	28.0	2600	3040	2450	5195	0.91
	21.0	2350	2540	2000	5273	0.82
ALLEN FEDERAL #31-6	22.5	3400	6000	2100	5053	0.85
	25.0	3500	5500	2100	5245	0.84
ALLEN FEDERAL #1-6	56.0	3400	?	1700	4657	0.80
ALLEN FEDERAL #1A-5	56.5	3850	?	1650	4726	0.79

Note: Fracture Gradient = (ISIP + 0.43836 psig/ft * Depth) / Depth
The hydrostatic head is calculated using 2% KCl water which was used as the displacing fluid after the frac.

Average Fracture Gradient = 0.861 psig/ft.

Exhibit - F
Jonah Uint Waterflood
Injection Well Pressure Analogy To
Section-6 Injection Wells

Well Name	Location/Rate/Pressure
1) Allen Federal #1-6	SE SE Sec.6,T9S,R17E 130 STBWPD @ 1775 psig
2) Balcron Monument Fed #11-6	NW NW Sec.6,T9S,R17E 275 STBWPD @ 1780 psig
3) Allen Federal #13-6	NW SW Sec.6,T9S,R17E 225 STBWPD @ 1150 psig
4) Allen Federal #22-6	SE NW Sec.6,T9S,R17E 200 STBWPD @ 1770 psig
5) Balcron Monument Fed #24-6	SE SW Sec.6,T9S,R17E 195 STBWPD @ 1790 psig
6) Allen Federal #31-6	NW NE Sec.6,T9S,R17E 145 STBWPD @ 1800 psig
7) Balcron Monument Fed #33-6	NW SE Sec.6,T9S,R17E 180 STBWPD @ 1875 psig
8) Balcron Monument Fed #42-6	SE NE Sec.6,T9S,R17E 170 STBWPD @ 1600 psig

Average injection pressure of 1690 psig.



2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

90

July 20, 1992

EXHIBIT "G"

John Zellitti
Balcron Oil Co.
P.O. Box 21017
Billings, Montana 59104

Ref. Packer Fluid for Monument Buttes Field

Dear Mr. Zellitti:

Champion Technologies, Inc., would like to recommend that you use Cortron R-2353 as a packer fluid in your Monument Buttes field. Its recommended treatment levels are from 0.5% to 2%. It is appropriate for either fresh water or brines. Cortron R-2353 contains two corrosion inhibitors: (1) a derivatized hexyl amine and (2) a quaternary ammonium compound. A catalyzed amine bisulfite oxygen scavenger is also included in R-2353. Sufficient methanol has been added to give the product a pour point of -40 degrees F.

If you have any questions, please get back with Mike Angus or me at our Vernal office: 789-4327.

Sincerely,

A handwritten signature in cursive script that reads "Joe Richards".

Joseph W. Richards
Tech. Services Mgr.

cc. Dale Griffin

7/20/92

MATERIAL SAFETY DATA SHEET

TIME 17.02.15

***** SECTION I - PRODUCT CODE 10977 *****

CHAMPION TECHNOLOGIES, INC.
3130 FM 521 FRESNO, TEXAS 77545
PO BOX 450499 HOUSTON, TEXAS 77245

EMERGENCY TELEPHONE NO.
713/431-2561 1/800/424-9300

PRODUCT NAME: CORTRON R-2383
CHEMICAL FAMILY: Quaternary Amines

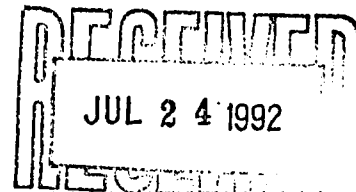
FORMULA: Proprietary

***** SECTION II - HAZARDOUS INGREDIENTS *****

MATERIALS	%	TLV UNITS	MATERIALS	%	TLV UNITS
# Methanol (67-56-1)	25	200ppm	# Ammonium Bisulfite	5	ND
Isopropanol (67-63-0)	5	400ppm			

RQ=20,000 lbs

RQ=2,420 gals



***** SECTION III - PHYSICAL DATA *****

BOILING POINT	ND	SPECIFIC GRAVITY	0.993
VAPOR PRESSURE	ND	% VOLATILE BY VOLUME	ND
VAPOR DENSITY	ND	EVAPORATION RATE	ND
pH	7.7	Viscosity	17 cps

SOLUBILITY IN WATER: Soluble
APPEARANCE AND ODOR: Dark brown liquid with alcohol odor

CARCINOGEN: NO

***** SECTION IV - FIRE AND EXPLOSION HAZARD DATA *****

FLASH POINT 74 F (PMCC) FLAMMABLE LIMITS -- LEL 6 UEL 36
EXTINGUISHING MEDIA: NO- ALCOHOL FOAM YES- CARBON DIOXIDE
YES- FOAM YES- DRY CHEMICAL YES- WATER SPRAY (FOG)

Flammable limits based on Methanol

SPECIAL FIRE FIGHTING PROCEDURES:
Flammable materials may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Containers may explode in heat or fire. Vapor explosion hazard indoors/outdoors or in sewers. Runoff to sewer may create a fire or explosion hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

***** TRANSPORTATION DATA *****

TRANSPORTATION HAZARD CLASS: 3.3
LABEL REQUIRED: Flammable # 27
PROPER SHIPPING NAME: Alcohols, N.O.S., 3.3, UN 1987, PG III
(Methanol, Isopropanol)
ID NUMBER: UN 1987

Denotes an ingredient listed in SARA Title III, Section 313

SARA Title III Hazard Categories: 1, 3.

Hazard Rating Scale: FIRE 3 REACTIVITY 0 HEALTH 2
4 Severe 3 Serious 2 Moderate 1 Slight 0 Minimal

NA = Not Applicable ND = No Data Available NE = Not Established

REVISION DATES: 7/07/92 7/11/91 7/26/90 2/22/88

Champion Technologies Modified Form OSHA-20

***** SECTION V - HEALTH HAZARD DATA ***** 92

THRESHOLD LIMIT VALUE: NE

EFFECTS OF OVEREXPOSURE:

May be hazardous if inhaled, ingested or absorbed through the skin. Vapors may cause dizziness or suffocation. Contact may irritate or burn skin and eyes.

EMERGENCY AND FIRST AID PROCEDURES:

Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of EYE contact, immediately flush with running water for at least 20 minutes. In case of SKIN contact, wash with soap and water. Remove and isolate contaminated clothing and shoes at the site.

***** SECTION VI - REACTIVITY DATA *****

STABLE: YES CONDITIONS TO AVOID: Open flames

INCOMPATIBLE MATERIALS TO AVOID:

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: NA

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

Stop the flow of liquid, eliminate sources of ignition. Dike or otherwise stop spreading. Vacuum up, absorb or scrape up liquid and contaminated soil. Put into containers for later disposal in an approved EPA or State disposal facility.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION: In closed areas use NIOSH approved respirator

VENTILATION:

LOCAL EXHAUST: Recommended

MECHANICAL: Adequate to dispel vapors

SPECIAL: Entering tanks or cleaning up spills: air supply recommended

PROTECTIVE GLOVES: chemically resistant/non-slip

EYE PROTECTION: chemical safety goggles/glasses

OTHER PROTECTIVE EQUIPMENT: Eyewash stations, ample water supply; showers
coveralls, splash aprons

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Clean up any spills promptly. DO NOT puncture drums.

OTHER PRECAUTIONS:

DO NOT INGEST.

PREPARED BY: S. Roberts

** This Material Safety Data Sheet is provided without charge to responsible
** persons who use it at their discretion and risk. Although the information
** contained herein have been completed from sources believed to be reliable
** there is no warranty of any kind, expressed or implied, as to the comp-
** leteness or accuracy thereof.

**
**
**
**
**

WATER ANALYSIS REPORT

Company BALCRON

Project # 940094

Address:

Field/Lease: Jonah Unit Waterflood
Source Water After Chemical

Report For: JOHN ZELLETTI

Date Sampled: 2/18/94

cc.

Date Received: 2/18/94

cc.

cc.

Date Reported: 2/18/94

Service Engineer: BARRY CULPEPPER

CHEMICAL COMPONENT	JONAH UNIT
CHLORIDE (mg/l)	300
SULFATE (mg/l)	313
CARBONATE (mg/l)	60
BICARBONATE (mg/l)	305
CALCIUM (mg/l)	80
MAGNESIUM (mg/l)	48.6
IRON (mg/l)	1
BARIUM (mg/l)	
STRONTIUM (mg/l)	
SODIUM (mg/l)	322
pH	7.2
IONIC STRENGTH	0.03
SPECIFIC GRAVITY	1.000
SI@20C (68F)	-0.11
SI@25C (77F)	0.03
SI@30C (86F)	0.18
SI@40C (104F)	0.41
SI@50C (122F)	0.57
SI@60C (140F)	0.79
SI@70C (158F)	0.68
SI@80C (176F)	1.10
SI@90C (194F)	1.29
TDS (mg/l)	1429
TEMPERATURE (F)	
DISSOLVED CO2 (ppm)	0
DISSOLVED H2S (ppm)	0
DISSOLVED O2 (ppm)	

Exhibit - I
Core Analysis

CORE ANALYSIS STUDY

for

DIAMOND SHAMROCK CORPORATION

ALLEN-FEDERAL 34-5 WELL
MONUMENT BUTTE FIELD
DUCHESNE COUNTY, UTAH

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 1

DIAMOND SHAMROCK CORP.
ALLEN-FEDERAL 34-5
MONUMENT BUTTE FIELD
DUCESNE COUNTY, UTAH

DATE : 9-21-83
FORMATION : GREEN RIVER
DRLG. FLUID: WBH
LOCATION : SW SE SEC. 5 T9S R17E

FILE NO : 3807-0054
ANALYSTS : R. MOHL
ELEVATION: 5205 GL

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM Ka MAXIMUM	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
	4995.0-07.0						SHALE-NO ANALYSIS
1	5007.0-08.0	0.01	2.1	73.6	16.4	2.67	SD VFG LMY
	5008.0-09.0						SHALE-NO ANALYSIS
	5009.0-11.0						LOST CORE
2	5011.0-12.0	0.01	4.0	58.9	31.4	2.65	OVF SD VFG LMY
3	5012.0-13.0	0.01	4.3	50.8	36.3	2.66	OVF SD VFG SL/LMY
4	5013.0-14.0	0.03	4.5	48.9	32.6	2.66	OVF SD VFG SL/LMY
5	5014.0-15.0	0.03	4.8	46.9	33.8	2.66	OVF SD VFG SL/LMY
6	5015.0-16.0	0.05	5.3	48.0	30.7	2.67	SD VFG SL/LMY
7	5016.0-17.0	0.02	5.0	57.2	20.2	2.66	SD VFG SL/LMY
8	5017.0-18.0	0.12	6.1	67.1	14.9	2.65	SD VFG SL/LMY
9	5018.0-19.0	0.11	8.5	62.1	16.3	2.65	SD VFG SL/LMY
10	5019.0-20.0	0.16	8.1	65.4	15.7	2.66	OVF SD VFG SL/LMY
11	5020.0-21.0	0.08	5.5	57.5	16.9	2.66	SD VFG SL/LMY
12	5021.0-22.0	0.01	4.8	51.6	28.9	2.70	OVF SD VFG LMY
13	5022.0-23.0	0.05	4.5	67.5	14.5	2.67	SD VFG LMY
14	5023.0-24.0	0.02	3.0	54.6	15.6	2.74	SD VFG V/LMY
15	5024.0-25.0	21.	15.0	40.8	9.4	2.67	SD VFG SL/LMY
16	5025.0-26.0	32.	15.8	44.7	8.7	2.68	OVF SD VFG SL/LMY
17	5026.0-27.0	53.	10.4	38.3	8.7	2.66	OVF SD VFG SL/LMY
18	5027.0-28.0	2.73	8.6	51.0	9.4	2.66	OVF SD VFG LMY
19	5028.0-29.0	0.01	3.8	62.1	16.6	2.66	OVF SD VFG LMY
	5029.0-36.0						SHALE-NO ANALYSIS
	5036.0-38.0						LOST CORE
	5038.0-45.0						SHALE-NO ANALYSIS

OVF=OPEN VERTICAL FRACTURE

96

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

DIAMOND SHAMROCK CORP.
ALLEN-FEDERAL 34-5

DATE : 9-21-83
FORMATION : GREEN RIVER

FILE NO. : 3807-C
ANALYSTS : R. MOH

*** CORE SUMMARY AND CALCULATED RECOVERABLE OIL ***

DEPTH INTERVAL: 5011.0 TO 5029.0

FEET OF CORE ANALYZED : 18.0 FEET OF CORE INCLUDED IN AVERAGES: 18.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.) : 0.00 TO 55. (UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%) : 0.0 TO 100.0
OIL SATURATION RANGE (%) : 0.0 TO 100.0
WATER SATURATION RANGE (%) : 0.0 TO 100.0
SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGE PERMEABILITY (MILLIDARCIES)		AVERAGE TOTAL WATER SATURATION	: 16.9
ARITHMETIC PERMEABILITY	: 6.1	(PERCENT OF PORE SPACE)	
GEOMETRIC PERMEABILITY	: 0.13		
HARMONIC PERMEABILITY	: 0.03	AVERAGE CONNATE WATER SATURATION	: (E) 15.5
		(PERCENT OF PORE SPACE)	
PRODUCTIVE CAPACITY (MILLIDARCY-FEET)			
ARITHMETIC CAPACITY	: 109.	OIL GRAVITY (API)	: (E) 38.0
GEOMETRIC CAPACITY	: 2.4		
HARMONIC CAPACITY	: 0.50	ORIGINAL FORMATION VOLUME FACTOR	: (E) 1.10
		(BBL'S SATURATED OIL/STOCK-TANK BBL)	
AVERAGE POROSITY (PERCENT)	: 6.8		
		ORIGINAL STOCK-TANK OIL IN PLACE	: (C) 404.
AVERAGE RESIDUAL OIL SATURATION	: 51.9	(BARRELS PER ACRE-FOOT)	
(PERCENT OF PORE SPACE)			

=====

INTERPRETATION OF DATA

=====

(C) CALCULATED (E) ESTIMATED (M) MEASURED (*) REFER TO ATTACHED LETTER.

CORE ANALYSIS RESULTS

for

DIAMOND SHAMROCK CORPORATION

PAIUTE-FEDERAL 24-8 WELL
SAND WASH FIELD
DUCHESNE COUNTY, UTAH

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 1

DIAMOND SHAMROCK CORP.
PAIUTE-FEDERAL 24-8
SAND WASH FIELD
DUCHESENE COUNTY, UTAH

DATE : 2-26-83
FORMATION : DOUGLAS CREEK
DRLG. FLUID: WBM
LOCATION : SE SW SEC. 8 T9S R17E

FILE NO : 3807-0035
ANALYSTS : R. MOHL
ELEVATION: 5350 GL

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM K _a MAXIMUM	POR. H _e	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
	4721.0-24.0						LOST CORE
1	4724.0-25.0	2.12	13.6	65.2	15.6	2.65	SD VFG-FN SL/LMY
2	4725.0-26.0	0.45	9.6	53.6	9.5	2.66	SD VFG-FN SL/LMY
3	4726.0-27.0	1.71	12.3	50.2	8.9	2.65	SD VFG-FN SL/LMY
4	4727.0-28.0	7.06	16.3	51.0	5.1	2.65	SD VFG-FN SL/LMY
5	4728.0-29.0	18.	16.7	47.8	6.3	2.66	SD VFG-FN SL/LMY
6	4729.0-30.0	18.	17.0	47.3	6.6	2.66	SD VFG-FN SL/LMY
7	4730.0-31.0	8.95	15.5	52.4	5.7	2.66	SD VFG-FN SL/LMY
8	4731.0-32.0	0.75	9.2	38.1	12.7	2.67	SD VFG-FN SL/LMY
9	4732.0-33.0	0.03	8.2	59.1	6.3	2.66	SD VFG-FN SL/LMY
10	4733.0-34.0	4.52	14.4	44.6	8.6	2.67	SD VFG-FN LMY
11	4734.0-35.0	5.90	14.4	46.4	6.0	2.67	SD VFG-FN LMY
12	4735.0-36.0	0.63	8.2	46.9	11.7	2.67	SD VFG-FN LMY MICA
	4736.0-37.0						SHALE-NO ANALYSIS
13	4737.0-38.0	0.01	4.9	68.9	13.8	2.66	SD VFG SL/ARGIL LMY MICA
14	4738.0-39.0	0.14	6.3	56.9	13.4	2.66	OVF SD VFG-FN LMY MICA

OVF=OPEN VERTICAL FRACTURE

69

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

DIAMOND SHAMROCK CORP.
PAIUTE-FEDERAL 24-8

DATE : 2-26-63
FORMATION : DOUGLAS CREEK

FILE NO. : 3807-00
ANALYSTS : R. MOHL

*** CORE SUMMARY AND CALCULATED RECOVERABLE OIL ***

DEPTH INTERVAL: 4724.0 TO 4739.0

FEET OF CORE ANALYZED : 14.0 FEET OF CORE INCLUDED IN AVERAGES: 14.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.)	:	0.01 TO 20.	(UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%)	:	0.0 TO 100.0	
OIL SATURATION RANGE (%)	:	0.0 TO 100.0	
WATER SATURATION RANGE (%)	:	0.0 TO 100.0	
SHALE SAMPLES EXCLUDED FROM AVERAGES.			

AVERAGE PERMEABILITY (MILLIDARCIES)		AVERAGE TOTAL WATER SATURATION	:	8.6
ARITHMETIC PERMEABILITY	:	(PERCENT OF PORE SPACE)		
GEOMETRIC PERMEABILITY	:			
HARMONIC PERMEABILITY	:	AVERAGE CONNATE WATER SATURATION	:	(E) 6.5
		(PERCENT OF PORE SPACE)		
PRODUCTIVE CAPACITY (MILLIDARCY-FEET)		OIL GRAVITY (API)	:	(E) 25.0
ARITHMETIC CAPACITY	:			
GEOMETRIC CAPACITY	:	ORIGINAL FORMATION VOLUME FACTOR	:	(E) 1.0
HARMONIC CAPACITY	:	(BBLs SATURATED OIL/STOCK-TANK BBL)		
AVERAGE POROSITY (PERCENT)	:	ORIGINAL STOCK-TANK OIL IN PLACE	:	(C) 799.
		(BARRELS PER ACRE-FOOT)		
AVERAGE RESIDUAL OIL SATURATION	:			
(PERCENT OF PORE SPACE)				

INTERPRETATION OF DATA

INTERVAL 4724-4739 OIL PRODUCTIVE AFTER SUCCESSFUL STIMULATION.

(C) CALCULATED (E) ESTIMATED (M) MEASURED (*) REFER TO ATTACHED LETTER.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 1

DIAMOND SHAMROCK CORP.
PAIUTE-FEDERAL 24-8
SAND WASH FIELD
DUCHESE COUNTY, UTAH

DATE : 3-1-83
FORMATION : WASATCH
DRLG. FLUID: WRM
LOCATION : SE SW SEC. 8 T9S R17E

FILE NO : 3807-0035
ANALYSTS : R. MOHL
ELEVATION: 5350 GL

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM K _z MAXIMUM	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
15	5434.0-35.0	0.28	11.5	46.5	11.6	2.67	SD VFG-FN SL/LMY
16	5435.0-36.0	1.47	11.7	43.9	11.5	2.67	SD FN SL/LMY
17	5436.0-37.0	1.81	13.0	43.2	12.3	2.68	SD FN SL/LMY
18	5437.0-38.0	1.00	7.8	55.3	16.6	2.68	SD FN SL/LMY
19	5438.0-39.0	<0.01	3.2	0.0	88.8	2.71	SD VFG MICA SLTY
	5439.0-41.0						SHALE-NO ANALYSIS
20	5441.0-42.0	0.03	4.4	56.1	17.5	2.67	OVF SD VFC-FN SL/LMY
21	5442.0-43.0	0.06	5.0	51.8	24.2	2.67	OVF SD VFG-FN SL/LMY
22	5443.0-44.0	0.08	4.7	49.9	23.3	2.67	OVF SD VFG-FN SL/LMY
23	5444.0-45.0	<0.01	2.8	0.0	83.5	2.70	SD VFG SL/LMY SLTY
24	5445.0-46.0	<0.01	2.7	0.0	90.9	2.71	SD VFG SL/LMY SLTY
25	5446.0-47.0	<0.01	2.1	0.0	72.5	2.71	SD VFG LMY SLTY
	5447.0-52.0						SHALE-NO ANALYSIS
	5452.0-54.0						LOST CORE
	5454.0-63.0						SHALE- NO ANALYSIS
26	5463.0-64.0	<0.01	3.0	0.0	94.6	2.70	SD VFG LMY SLTY
27	5464.0-65.0	<0.01	3.2	0.0	85.4	2.69	SD VFG LMY SLTY
	5465.0-72.0						SHALE-NO ANALYSIS
28	5472.0-73.0	<0.01	3.7	0.0	82.0	2.72	SD VFG-FN LMY S & P
29	5473.0-74.0	0.03	4.4	0.0	48.3	2.66	OVF SD FN-MED LMY S & P
30	5474.0-75.0	0.05	5.9	0.0	48.9	2.67	OVF SD FN-MED LMY S & P MICA
31	5475.0-76.0	0.13	6.1	0.0	51.0	2.67	OVF SD FN-MED LMY S & P MICA
32	5476.0-77.0	0.02	5.6	0.0	82.7	2.69	OVF SD FN-MED LMY S & P MICA
33	5477.0-78.0	<0.01	3.9	0.0	82.5	2.70	OVF SD VFG-FN LMY S & P
	5478.0-80.0						SHALE-NO ANALYSIS
	5480.0-84.0						LOST CORE

OVF=OPEN VERTICAL FRACTURE

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best information available at the time of completion of this report.

101

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

DIAMOND SHAMROCK CORP.
PAIUTE-FEDERAL 24-8

DATE : 3-1-63
FORMATION : WASATCH

FILE NO. : 3807-0035
ANALYSTS : R. MOHL

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 5434.0 TO 5478.0

FEET OF CORE ANALYZED : 19.0 FEET OF CORE INCLUDED IN AVERAGES: 19.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.)	:	0.00 TO 2.0	(UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%)	:	0.0 TO 100.0	
OIL SATURATION RANGE (%)	:	0.0 TO 100.0	
WATER SATURATION RANGE (%)	:	0.0 TO 100.0	

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 5434.0 TO 5478.0

AVERAGE PERMEABILITY (MILLIDARCIES)

ARITHMETIC PERMEABILITY	:	0.26
GEOMETRIC PERMEABILITY	:	0.03
HARMONIC PERMEABILITY	:	0.01

PRODUCTIVE CAPACITY (MILLIDARCY-FEET)

ARITHMETIC CAPACITY	:	5.0
GEOMETRIC CAPACITY	:	0.59
HARMONIC CAPACITY	:	0.15

AVERAGE POROSITY (PERCENT) : 5.5

AVERAGE TOTAL WATER SATURATION : 40.5
(PERCENT OF PORE SPACE)

AVERAGE RESIDUAL OIL SATURATION : 26.6
(PERCENT OF PORE SPACE)

AVERAGE CONNATE WATER SATURATION ** :
(PERCENT OF PORE SPACE)

** ESTIMATED FROM TOTAL
WATER SATURATION.

102

CORE ANALYSIS RESULTS

for

DIAMOND SHAMROCK CORPORATION

PAIUTE-FEDERAL 34-8 WELL
MONUMENT BUTTE FIELD
DUCHESNE COUNTY, UTAH

ГРУД

DATE : 9-5-83
FORMATION : GREEN RIVER
DRLG. FLUID: WBM
LOCATION : SW SE SEC. 8 T9S R17E

FILE NO : 3807-0050
ANALYSTS : R. MOHL
ELEVATION: 5302 GL

DIAMOND SHAMROCK CORP.
FAIUTE-FEDERAL 34-8
MONUMENT BUTTE FIELD
DUCHESENE COUNTY, UTAH

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM Ka MAXIMUM	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
1	4050.0-51.0	2.11	8.4	50.6	16.9	2.66	SD VFG
2	4051.0-52.0	0.42	6.9	50.2	13.2	2.65	SD VFG
3	4052.0-53.0	0.05	4.3	53.5	23.4	2.65	SD VFG SL/LMY
4	4053.0-54.0	0.02	5.5	38.0	43.1	2.66	SD VFG MICA
5	4054.0-55.0	1.50	9.9	34.9	20.4	2.65	SD VFG
6	4055.0-56.0	0.78	10.5	31.7	26.5	2.65	SD VFG
7	4056.0-57.0	1.83	12.2	40.3	26.3	2.66	SD VFG
8	4057.0-58.0	0.93	10.7	40.7	15.4	2.65	SD VFG
9	4058.0-59.0	1.99	9.8	34.2	34.2	2.67	SD VFG
10	4059.0-60.0	5.12	13.9	43.1	13.9	2.67	SD VFG
11	4060.0-61.0	3.25	12.4	34.1	17.1	2.67	SD VFG
12	4061.0-62.0	2.52	12.8	32.7	16.4	2.66	SD VFG
13	4062.0-63.0	0.63	8.0	35.4	42.5	2.66	CVF SD VFG
14	4063.0-64.0	1.04	11.0	26.7	20.4	2.66	SD VFG
15	4064.0-65.0	11.	11.3	32.3	17.1	2.66	SD VFG
16	4065.0-66.0	2.35	9.9	40.7	28.5	2.66	SD VFG
17	4066.0-67.0	<0.01	2.3	0.0	73.1	2.67	SD VFG LMY
	4067.0-71.0						SHALE-NO ANALYSIS
18	4071.0-72.0	<0.01	1.2	0.0	46.1	2.69	SD VFG LMY
	4072.0-76.0						SHALE-NO ANALYSIS
19	4076.0-77.0	<0.01	1.3	0.0	48.1	2.78	DOLO VF/XLN FOSS LMY
20	4077.0-78.0	<0.01	1.8	0.0	55.6	2.80	DOLO VF/XLN FOSS LMY
	4078.0-79.0						SHALE-NO ANALYSIS
21	4079.0-80.0	<0.01	4.8	28.5	52.9	2.66	SD VFG LMY
22	4080.0-81.0	0.49	7.1	23.3	54.3	2.66	SD VFG SL/LMY
23	4081.0-82.0	1.67	9.5	30.4	11.4	2.66	SD VFG
24	4082.0-83.0	1.58	10.0	29.3	11.0	2.65	SD VFG
25	4083.0-84.0	2.11	11.9	29.3	28.1	2.66	SD VFG

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or

104

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

DIAMOND SHAMROCK CORP.
PAIUTE-FEDERAL 34-8

DATE : 9-3-83
FORMATION : GREEN RIVER

FILE NO : 3807-0050
ANALYSTS : R. MOHL

CONVENTIONAL ANALYSIS--BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM Ka MAXIMUM	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
26	4084.0-85.0	2.93	11.9	30.1	9.5	2.66	SD VFG
27	4085.0-86.0	5.34	12.7	39.4	12.1	2.67	SD VFG
28	4086.0-87.0	2.15	9.1	48.5	24.2	2.66	SD VFG
	4087.0-01.0						SHALE-NO ANALYSIS
29	4101.0-02.0	<0.01	2.5	0.0	68.4	2.70	SD VFG LMY
30	4102.0-03.0	<0.01	3.9	0.0	75.7	2.69	SD VFG LMY
	4103.0-18.0						SHALE-NO ANALYSIS
	4118.0-22.0						LOST CORE
	4122.0-30.0						SHALE-NO ANALYSIS

CVF=CLOSED VERTICAL FRACTURE

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

DIAMOND SHAMROCK CORP.
FAIUTE-FEDERAL 34-8

DATE : 9-5-83
FORMATION : GREEN RIVER

FILE NO. : 3807-0
ANALYSTS : R. MOH

*** CORE SUMMARY AND CALCULATED RECOVERABLE OIL ***

DEPTH INTERVAL: 4050.0 TO 4066.0

FEET OF CORE ANALYZED : 16.0 FEET OF CORE INCLUDED IN AVERAGES: 16.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.)	:	0.01 TO 15.	(UNCORRECTED) FOR SLIPPAGE)
HELIUM POROSITY RANGE (%)	:	0.0 TO 100.0	
OIL SATURATION RANGE (%)	:	0.0 TO 100.0	
WATER SATURATION RANGE (%)	:	0.0 TO 100.0	
SHALE SAMPLES EXCLUDED FROM AVERAGES.			

AVERAGE PERMEABILITY (MILLIDARCIES)

ARITHMETIC PERMEABILITY	:	2.2
GEOMETRIC PERMEABILITY	:	1.1
HARMONIC PERMEABILITY	:	0.20

AVERAGE TOTAL WATER SATURATION : 22.4
(PERCENT OF PORE SPACE)

AVERAGE CONNATE WATER SATURATION : (E) 21.0
(PERCENT OF PORE SPACE)

PRODUCTIVE CAPACITY (MILLIDARCY-FEET)

ARITHMETIC CAPACITY	:	36.
GEOMETRIC CAPACITY	:	17.
HARMONIC CAPACITY	:	3.2

OIL GRAVITY (API) : (E) 38.0

ORIGINAL FORMATION VOLUME FACTOR : (E) 1.10
(BBLs SATURATED OIL/STOCK-TANK BBL)

AVERAGE POROSITY (PERCENT) : 9.8

ORIGINAL STOCK-TANK OIL IN PLACE : (C) 548.
(BARRELS PER ACRE-FOOT)

AVERAGE RESIDUAL OIL SATURATION : 37.7
(PERCENT OF PORE SPACE)

INTERPRETATION OF DATA

INTERVAL 4050-4066 OIL PRODUCTIVE W/WATER CUT AFTER SUCCESSFUL TREATMENT.

(C) CALCULATED (E) ESTIMATED (M) MEASURED (*) REFER TO ATTACHED LETTER.

Allen Federal #13-6
NW SW Sec.6,T9S,R17E
Lease No.U-020252A
Monument Butte Field
Duchesne Co., Utah

Step Rate Injection Test

Jan.6,1993

Injection Rate (STBPM)	Starting Time (PM)	Volume Pumped (STB)	Surface Pressure At Start (PSIG)	Surface Stabilized Pressure (PSIG)	Down Hole Stabilized Pressure From Bomb Set @ 4781' GL. (PSIG)
0.25	4:25	7.5	200	400	2454
0.50	4:55	15.0	600	1350	3216
0.75	5:25	22.5	1400	1650	3558
1.00	5:55	30.0	1750	1900	3772
1.25	6:25	37.5	2000	2100	3886
1.50	6:55	45.0	2200	2250	3952
1.75	7:25	52.5	2400	2300	4004
2.00	7:55	60.0	2400	2400	4059
2.50	8:25	75.0	2600	2600	4110

Shut Down @ 8:55 PM

ISIP @ 2000 psig, 5 min @ 1800 psig, 10 min @ 1700 psig, 15 min @ 1600 psig.

Total volume pumped @ 345 STBW in 4.5 hours.

Step rate injection test pumped by the Western Company out of Vernal, Utah.

Added 6.0 lbs biocide per 500 gal fresh water and 1.0 gal claytreat per 1000 gal fresh water.

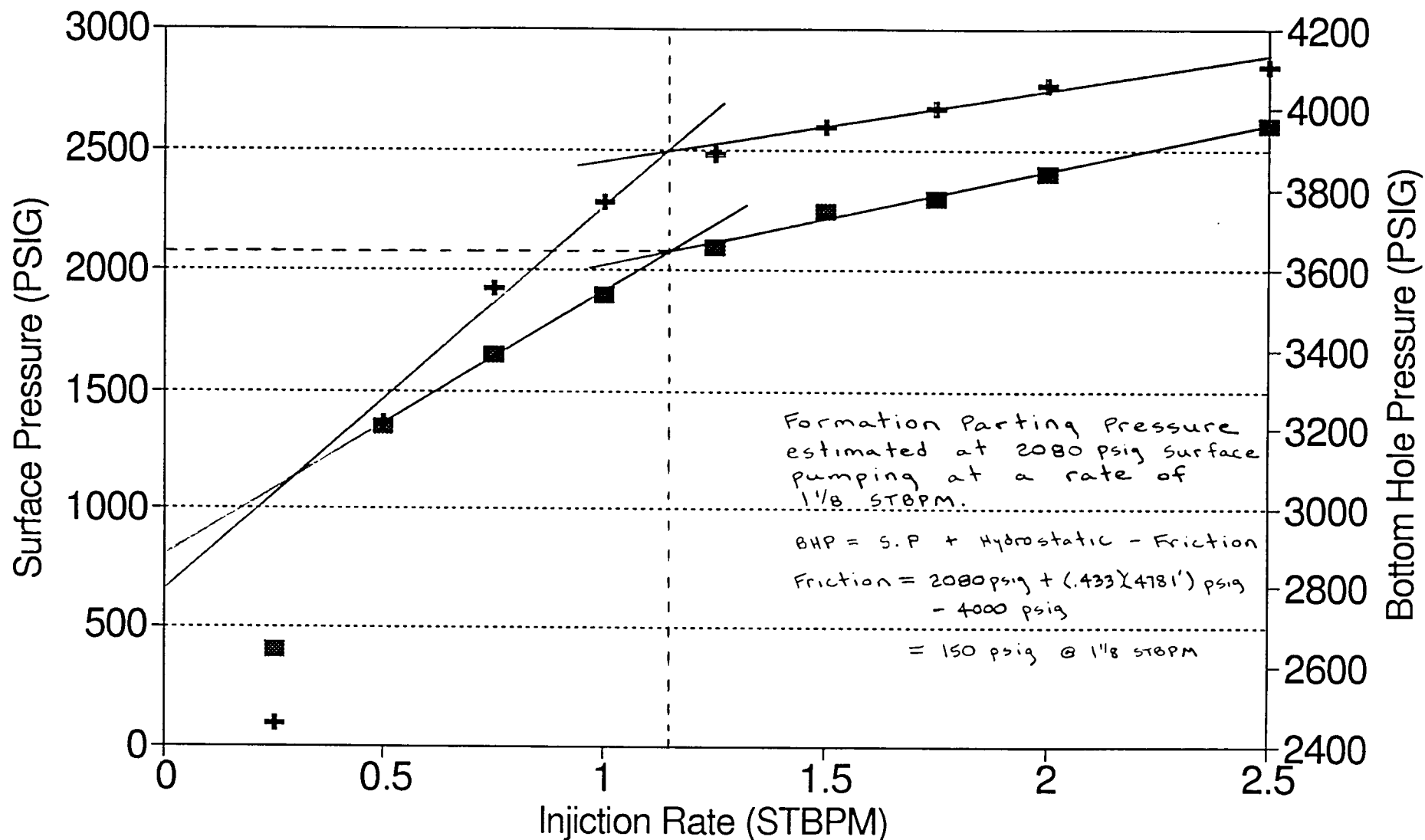
Note: Loaded tubing & backed injection rate off to 1/8 STBPM, well showed zero tubing pressure at this rate, increased rate to 1/4 STBPM.

Perforated Interval @ 4910'-4930' KB w/bottom of packer set @ 4791' KB.

Seating nipple set @ 4784' KB (10' KB).

Seven foot pressure bomb recorder set @ 4781' GL.

Step Rate Injection Test Allen Federal #13-6



—■— Surface Pressure —+— BHP

Note: Friction pressure includes that of 2 3/8" tbg and friction across the pressure bomb & No 90 hung off in the seating nipple.

Proposed Injection Well Surface Equipment

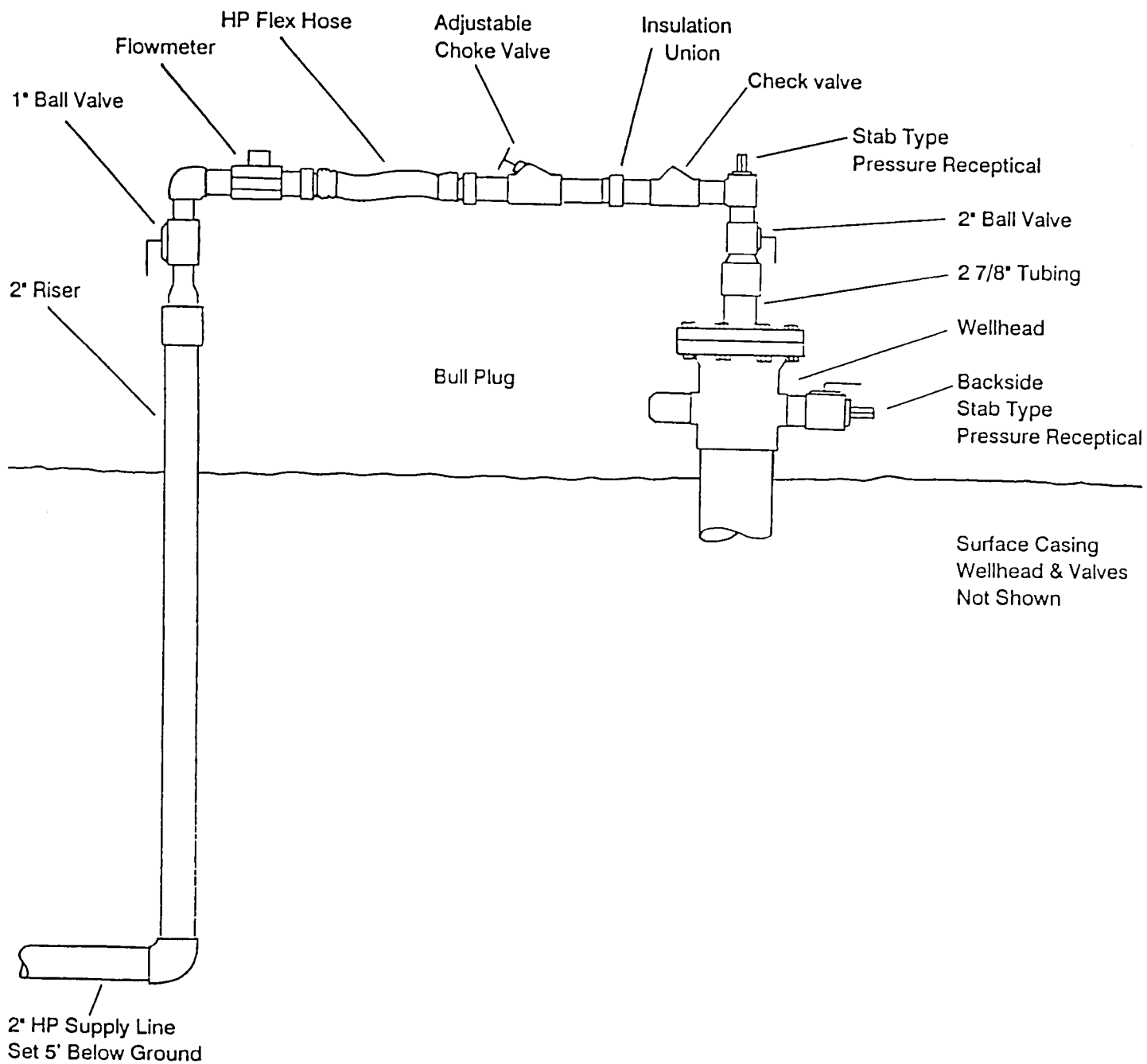


Exhibit - L
Proposed Injection Well Completion Diagrams

BALCRON MONUMENT FEDERAL #13-5
NW SW SEC.5,T9S,R17E
Lease No. #U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCESNE COUNTY, UTAH

111
BALCRON OIL
2-18-94

Proposed Injection well Completion Diagram

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 246.10'
Landed @ 256' KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#
133 jts @ 5758.95'
Landed @ 5751' KB
Cemented w/166 sxs Hilift &
259 sxs Class "G"
Cement top @ 2570' KB from CBL
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#
SN @ 2 7/8" x 1.10'
SN Landed @ 4580' KB

Retrievable Csg Tension Packer
Model: Arrow Set-1
Landed @ 4584' KB

- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

- Retrievable Csg Tension Packer @ 4584' KB

PERFORATION RECORD

4638'-4649' (11') 6 shots Red 1
4789'-4804' (15') 8 shots Red 5
5510'-5516' (6') 2 SPF Blue 1
5510'-5516' (6') 2 SPF RE-PERF
Proposed Reperf:
4638'-4648' w/2 SPF
4788'-4804' w/2 SPF
Proposed Additional Perfs:
5106'-5110' w/2 SPF Green 4

- Douglas Creek Member 4100 - 5350 ft.
- Wasatch Fm. Transition 5350 - 6000ft.
PBTB @ 5703' KB
TD @ 5750' KB

- Wasatch Formation 6000 ft.

BALCRON MONUMENT FEDERAL #22-5J
SE NW SEC.5,T9S,R17E
Lease No. U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCESNE COUNTY, UTAH

BALCRON OIL
2-18-94

Proposed Injection well Completion Diagram

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 265.50'
Landed @ 273' KB
Cement w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", J-55, 15.5#
136 jts @ 5833'
Landed @ 5846' KB
Cemented w/150 sxs Hilift Standard &
265 sxs 50-50 POZ
Cement Top @ 2860' KB from CBL
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#
SN @ 2 7/8" x 1.10'
SN Landed @ 4830' KB

Retrievable Csg Tension Packer
Model: Arrow Set-1
Landed @ 4834' KB

- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

- Retrievable Csg Tension Packer @ 4834' KB

PERFORATION RECORD

4890' KB, 4894' KB, 4895' KB 1 Shot Each Red 5
4900' KB, 4905' KB, 4906' KB 1 Shot Each Red 5
5041' KB, 5042' KB, 5043' KB, 5044' KB, 5048' KB
1 Shot Each Green 1
Proposed Reperf: 4888'-4896' w/2 SPF
5040'-5050' w/2 SPF

- Douglas Creek Member 4100 - 5350 ft.

- Wasatch Fm. Transition 5350 - 6000ft.

PBTD @ 5784' KB

TD @ 5850' KB

- Wasatch Formation 6000 ft.

BALCRON MONUMENT FEDERAL #24-5
SE SW SEC.5,T9S,R17E
Lease No. U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

BALCRON OIL
2-18-94

113

Proposed Injection well Completion Diagram

SURFACE CASING

8 5/8", J-55, 24#
Six joints @ 258.20'
Landed @ 271' KB
Cemented w/150 sxs 75% "G" & 25% POZ,
2% CCI & 1/4#x Celoflake
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", J-55, 15.5#
127 joints @ 5719.58'
Landed @ 5699' KB
Cemented w/238 sxs Thrifty lite &
405 sxs 50-50 POZ
Cement Top @ 2525' KB from CBL
Hole Size @ 7 7/8"

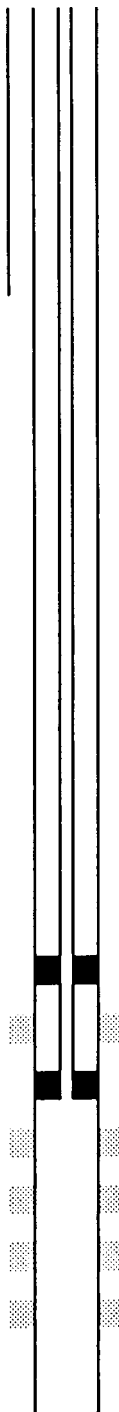
TUBING

2 7/8", J-55, 6.5#
SN @ 2 7/8" x 1.10'
SN Landed @ 4000' KB

Retrieable Csg Tension Packer
Model: Arrow Snap Set
Landed @ 4004' KB

Retrieable Csg Tension Packer
Model: Arrow Set-1
Landed @ 4640' KB

Note: The Yellow zone perforations
from 4064'- 4184' KB will
not be used for injection at
this time and will be isolated
with an additional packer.



- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

- Retrieable Csg Tension Packer @ 4004' KB
and @ 4640' KB.

PERFORATION RECORD

4064'- 4072' (8') 3 Holes Yellow 1
4107'- 4122' (15') 4 Holes Yellow 2
4174'- 4184' (10') 4 Holes Yellow 3
4700'- 4708' (8') 2 SPF Red 2
4749'- 4760' (11') 2 SPF Red 5
5044'- 5049' (5') 2 SPF Green 3
5061'- 5069' (8') 2 SPF Green 3
5480'- 5496' (16') 2 SPF Blue 1

- Douglas Creek Member 4100 - 5350 ft.
- Wasatch Fm. Transition 5350 - 6000 ft.
PBD @ 5668' KB
TD @ 5700' KB

- Wasatch Formation 6000 ft.

BALCRON MONUMENT FEDERAL #31-7
NW NE SEC.7,T9S,R17E
Lease No. U-44426
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

BALCRON OIL
2-18-94

Proposed Injection well Completion Diagram

SURFACE CASING

8 5/8", J-55, 24#
Six joints @ 279.08'
Landed @ 282'KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

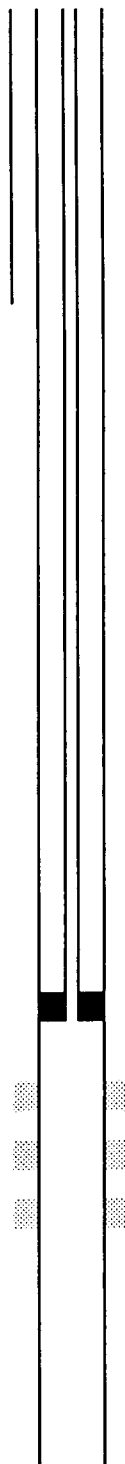
PRODUCTION CASING

5 1/2", K-55, 15.5#
132 jts @ 5678.16'
Landed @ 5691.86'KB
Cemented w/132 sxs Hilift &
239 sxs Class "G"
Cement Top @ 1830'KB from Daily Report
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#
SN @ 2 7/8" x 1.10'
SN Landed @ 4840' KB

Retrievable Csg Tension Packer
Model: Arrow Set-1
Landed @ 4844' KB



- Uinta Formation Surface to 1400'

- Green River Formation 1400' to 4100'

- Retrievable Csg Tension Packer @ 4844' KB

PERFORATION RECORD

4903'-4910' (7') 2 SPF Green 1
4914'-4917' (3') 2 SPF Green 1
5050'-5055' (5') 2 SPF Green 3
5062'-5064' (2') 2 SPF Green 3
5080'-5086' (6') 2 SPF Green 4
5100'-5106' (6') 2 SPF Green 4

- Douglas Creek Member 4100 - 5350 ft.
- Wasatch Fm. Transition 5350 - 6000ft.
PBD @ 5645' KB
TD @ 5700' KB
- Wasatch Formation 6000 ft.

Exhibit - M
Plugging And Abandonment Diagrams

BALCRON MONUMENT FEDERAL #13-5
NW SW SEC.5,T9S,R17E
Lease No. #U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

Proposed Plugging & Abandonment Diagram

116
BALCRON OIL
2-18-93

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 246.10'
Landed @ 256' KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#
133 jts @ 5758.95'
Landed @ 5751' KB
Cemented w/166 sxs Hilift &
259 sxs Class "G"
Cement top @ 2570' KB from CBL
Hole Size @ 7 7/8"

PLUGGING PROCEDURE

Enter the well w/tbg and wash to TD. If the well is not dead, circulate mud with sufficient weight to kill the well. Pump a balanced cement plug using 260 sacks across the Douglas Creek Member of the Green River Formation from TD to at least 300 ft above the upper most perms. The production csg will be perforated for two feet using 4 SPF at a point 100 ft below the surface csg shoe. Circulation will be established to surface and cement will be circulated to fill the production csg & the annulus from the perforations to surface using 100 sx of class-G cement. The top of the second cement plug will be at the surface.

Permanent P&A marker w/identifying well information.

Plug No.2 Surface to 350 ft.
Perforate csg at 100 ft below
the surface csg shoe & circulate
100 sx of Class-G Cement to
surface.

- Uinta Formation Surface to 1400 ft.

Plug No.1 TD to 3800ft.
260 sx of Class-G Cement

- Green River Formation 1400 to 4100 ft.

PERFORATION RECORD

4638'-4649' (11') 6 shots Red 1
4789'-4804' (15') 8 shots Red 5
5510'-5516' (6') 2 SPF Blue 1
5510'-5516' (6') 2 SPF RE-PERF
Proposed Reperf:
4638'-4648' w/2 SPF
4788'-4804' w/2 SPF
Proposed Additional Perfs:
5106'-5110' w/2 SPF Green 4

- Douglas Creek Member 4100 to 5350 ft.
- Wasatch Fm. Transition 5350 to 6000 ft.

PBTD @ 6004'KB

TD @ 6056'KB

- Wasatch Formation 6000 ft.



PLUGGING AND ABANDONMENT PLAN

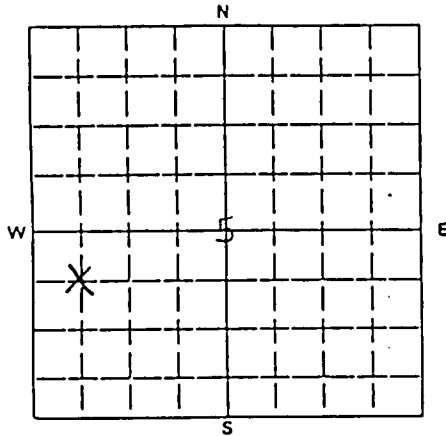
NAME AND ADDRESS OF FACILITY

Jonah Unit
Monument Butte Field
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR

Equitable Resources Energy Company
Balcron Oil Division
1601 Lewis Ave. Bldg.
Billings, Mt. 59104

117

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT - 640 ACRES

STATE

Utah

COUNTY

Duchesne County

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF NW 1/4 OF SW 1/4 SECTION 5 TOWNSHIP 9S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface
Location 1980 ft. from (N/S) S Line of quarter section
and 660 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
-
- ☒
- Area Permit
-
- ☐
- Rul.

Number of Wells 4

Lease Name Jonah Unit

WELL ACTIVITY

- ☐
- CLASS I
-
- ☒
- CLASS II
-
- ☐
- Brine Disposal
-
- ☐
- Enhanced Recovery
-
- ☐
- Hydrocarbon Storage
-
- ☐
- CLASS III

Balcron Monument

Well Number Federal # 13-5

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB./FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8"	24 *		256' KB	12 1/4"
5 1/2"	15.5 *		5751' KB	7 7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒
- The Balance Method
-
- ☐
- The Dump Bailer Method
-
- ☐
- The Two-Plug Method
-
- ☒
- Other Perforate csg and circulate
-
- 2nd plug to surface

CEMENTING TO PLUG AND ABANDON DATA:		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)		5 1/2"	5 1/2"					
Depth to Bottom of Tubing or Drill Pipe (ft.)		5703' KB						
Sacks of Cement To Be Used (each plug)		260 SK	100 SK					
Slurry Volume To Be Pumped (cu. ft.)		300	115					
Calculated Top of Plug (ft.)		3521' KB	Surface					
Measured Top of Plug (if tagged ft.)								
Slurry Wt. (Lb./Gal.)		15.8'	15.8'					
Type Cement or Other Material (Class III)		CLASS-G	CLASS-G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4638'	4649		
4789	4804		
5510	5516		
Proposed 5106	5110		

Estimated Cost to Plug Wells

\$7000 (Rig & Cement Job)

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

John Zellitti
Senior Production Engineer

SIGNATURE

DATE SIGNED

2-19-94

BALCRON MONUMENT FEDERAL #22-5J
SE NW SEC.5,T9S,R17E
Lease No. U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

Proposed Plugging & Abandonment Diagram

BALCRON OIL
2-18-93

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 265.50'
Landed @ 273' KB
Cement w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", J-55, 15.5#
136 jts @ 5833'
Landed @ 5846' KB
Cemented w/150 sxs Hilift Standard &
265 sxs 50-50 POZ
Cement Top @ 2860' KB from CBL
Hole Size @ 7 7/8"

PLUGGING PROCEDURE

Enter the well w/tbg and wash to TD. If the well is not dead, circulate mud with sufficient weight to kill the well. Pump a balanced cement plug using 260 sacks across the Douglas Creek Member of the Green River Formation from TD to at least 300 ft above the upper most perfs. The production csg will be perforated for two feet using 4 SPF at a point 100 ft below the surface csg shoe. Circulation will be established to surface and cement will be circulated to fill the production csg & the annulus from the perforations to surface using 100 sx of class-G cement. The top of the second cement plug will be at the surface.

Permanent P&A marker w/identifying well information.

Plug No.2 Surface to 350 ft.
Perforate csg at 100 ft below the surface csg shoe & circulate 100 sx of Class-G Cement to surface.

- Uinta Formation Surface to 1400 ft.

Plug No.1 TD to 3800ft.
260 sx of Class-G Cement

- Green River Formation 1400 to 4100 ft.

PERFORATION RECORD

4890' KB, 4894' KB, 4895' KB 1 Shot Each Red 5
4900' KB, 4905' KB, 4906' KB 1 Shot Each Red 5
5041' KB, 5042' KB, 5043' KB, 5044' KB, 5048' KB
1 Shot Each Green 1
Proposed Reperf: 4888'-4896' w/2 SPF
5040'-5050' w/2 SPF

- Douglas Creek Member 4100 to 5350 ft.
- Wasatch Fm. Transition 5350 to 6000 ft.

PBTD @ 5784' KB
TD @ 5850' KB

- Wasatch Formation 6000 ft.



PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

Jonah Unit
Monument Butte Field
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR

Equitable Resources Energy Company 119
Balcron Oil Division
1601 Lewis Ave. Bldg.
Billings, Mt. 59104LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT - 640 ACRES

STATE

Utah

COUNTY

Duchesne County

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF SE 1/4 OF NW 1/4 SECTION 5 TOWNSHIP 9S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface
Location 1853 ft. from (N/S) N Line of quarter section
and 819 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
-
- ☒
- Area Permit
-
- ☐
- Rul.

Number of Wells 4

WELL ACTIVITY

- ☐
- CLASS I
-
- ☒
- CLASS II
-
- ☐
- Brine Disposal
-
- ☐
- Enhanced Recovery
-
- ☐
- Hydrocarbon Storage
-
- ☐
- CLASS III

Balcron Monument

Well Number Federal #22-5

Lease Name Jonah Unit

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8"	24 #		273' KB	12 1/4"
5 1/2"	15.5 #		5846' KB	7 7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒
- The Balance Method
-
- ☐
- The Dump Bailer Method
-
- ☐
- The Two-Plug Method
-
- ☒
- Other Perforate csg and circulate
-
- 2nd plug to surface

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5 1/2"	5 1/2"					
Depth to Bottom of Tubing or Drill Pipe (ft.)	5184' KB						
Sacks of Cement To Be Used (each plug)	260 SK	100 SK					
Slurry Volume To Be Pumped (cu. ft.)	307	115					
Calculated Top of Plug (ft.)	3602' KB	Surface					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8'	15.8'					
Type Cement or Other Material (Class III)	Class-G	Class-G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4888'	4896'		
5040'	5050'		

Estimated Cost to Plug Wells

\$7000 (casing & cement job)

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

John Zellitti
Senior Production Engineer

SIGNATURE

DATE SIGNED

2-19-94

BALCRON MONUMENT FEDERAL #24-5
SE SW SEC.5,T9S,R17E
Lease No. U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

Proposed Plugging & Abandonment Diagram

BALCRON OIL
2-18-93

SURFACE CASING

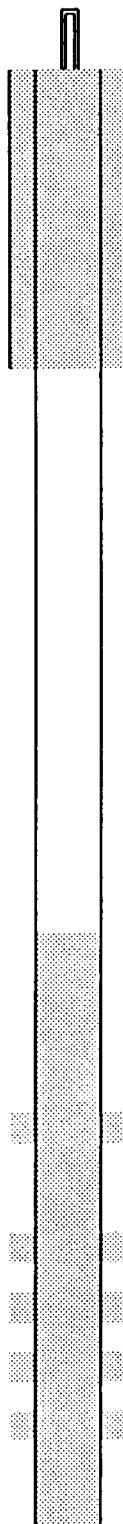
8 5/8", J-55, 24#
Six joints @ 258.20'
Landed @ 271' KB
Cemented w/150 sxs 75% "G" & 25% POZ,
2% CCI & 1/4#x Celoflake
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", J-55, 15.5#
127 joints @ 5719.58'
Landed @ 5699' KB
Cemented w/238 sxs Thrifty lite &
405 sxs 50-50 POZ
Cement Top @ 2525' KB from CBL
Hole Size @ 7 7/8"

PLUGGING PROCEDURE

Enter the well w/tbg and wash to TD.If
the well is not dead,circulate mud with
sufficient weight to kill the well.Pump
a balanced cement plug using 260 sacks
across the Douglas Creek Member of the
Green River Formation from TD to at least
300 ft above the upper most perfs.The
production csg will be perforated for two
feet using 4 SPF at a point 100 ft below
the surface csg shoe.Circulation will be
established to surface and cement will be
circulated to fill the production csg & the
annulus from the perforations to surface
using 100 sx of class-G cement.The top of
the second cement plug will be at the surface.



Permanent P&A marker w/identifying well information.

Plug No.2 Surface to 350 ft.
Perforate csg at 100 ft below
the surface csg shoe & circulate
100 sx of Class-G Cement to
surface.

- Uinta Formation Surface to 1400 ft.

Plug No.1 TD to 3800ft.
260 sx of Class-G Cement

- Green River Formation 1400 to 4100 ft.

PERFORATION RECORD

4064'- 4072' (8') 3 Holes Yellow 1
4107'- 4122' (15') 4 Holes Yellow 2
4174'- 4184' (10') 4 Holes Yellow 3
4700'- 4708' (8') 2 SPF Red 2
4749'- 4760' (11') 2 SPF Red 5
5044'- 5049' (5') 2 SPF Green 3
5061'- 5069' (8') 2 SPF Green 3
5480'- 5496' (16') 2 SPF Blue 1

- Douglas Creek Member 4100 to 5350 ft.
- Wasatch Fm. Transition 5350 to 6000 ft.

PBTD @ 5668' KB
TD @ 5700' KB

- Wasatch Formation 6000 ft.

PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

Jonah Unit
Monument Butte Field
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR

Equitable Resources Energy Company
Balcram Oil Division
1601 Lewis Ave. Bldg.
Billings Mt. 59104

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES

STATE

COUNTY

Utah

Duchesne County

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF SE 1/4 OF SW 1/4 SECTION 5 TOWNSHIP 9S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface
Location 165 ft. from (N/S) S Line of quarter section
and 2243 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

☐ Individual Permit
☒ Area Permit
☐ Rul.

Number of Wells 4

Lease Name Jonah Unit

WELL ACTIVITY

☐ CLASS I
☒ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Balcón Monument

Well Number Federal # 24-5

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8"	24 #		271' KB	12 1/4"
5 1/2"	15.5 #		5699' KB	7 7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☒ Other Perforate CSG and circulate 2nd plug to surface

CEMENTING TO PLUG AND ABANDON DATA:

Size of Hole or Pipe in which Plug Will Be Placed (inches)	5 1/2"	5 1/2"					
Depth to Bottom of Tubing or Drill Pipe (ft.)	5668' KB						
Sacks of Cement To Be Used (each plug)	260 SK	100 SK					
Slurry Volume To Be Pumped (cu. ft.)	207	115					
Calculated Top of Plug (ft.)	7486' KB	Surface					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8'	15.8'					
Type Cement or Other Material (Class III)	Class-G	Class-G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4064	4072	5044	5049
4107	4122	5061	5069
4174	4184	5480	5496
4700	4708		
4749	4760		

[illegible]

\$7000 (Rig & Cement Job)

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

John Zellitti
Senior Production Engineer

SIGNATURE

John F. Little

DATE SIGNED

2-19-94

BALCRON MONUMENT FEDERAL #31-7
NW NE SEC.7,T9S,R17E
Lease No. U-44426
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

Proposed Plugging & Abandonment Diagram

BALCRON OIL
2-18-93

SURFACE CASING

8 5/8", J-55, 24#
Six joints @ 279.08'
Landed @ 282'KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

Permanent P&A marker w/identifying well information.

Plug No.2 Surface to 350 ft.
Perforate csg at 100 ft below
the surface csg shoe & circulate
100 sx of Class-G Cement to
surface.

PRODUCTION CASING

5 1/2", K-55, 15.5#
132 jts @ 5678.16'
Landed @ 5691.86'KB
Cemented w/132 sxs Hilift &
239 sxs Class "G"
Cement Top @ 1830'KB from Daily Report
Hole Size @ 7 7/8"

- Uinta Formation Surface to 1400 ft.

PLUGGING PROCEDURE

Enter the well w/tbg and wash to TD.If
the well is not dead,circulate mud with
sufficient weight to kill the well.Pump
a balanced cement plug using 260 sacks
across the Douglas Creek Member of the
Green River Formation from TD to at least
300 ft above the upper most perms.The
production csg will be perforated for two
feet using 4 SPF at a point 100 ft below
the surface csg shoe.Circulation will be
established to surface and cement will be
circulated to fill the production csg & the
annulus from the perforations to surface
using 100 sx of class-G cement.The top of
the second cement plug will be at the surface.

Plug No.1 TD to 3800ft.
260 sx of Class-G Cement

- Green River Formation 1400 to 4100 ft.

PERFORATION RECORD

4903'-4910' (7') 2 SPF Green 1
4914'-4917' (3') 2 SPF Green 1
5050'-5055' (5') 2 SPF Green 3
5062'-5064' (2') 2 SPF Green 3
5080'-5086' (6') 2 SPF Green 4
5100'-5106' (6') 2 SPF Green 4

- Douglas Creek Member 4100 to 5350 ft.
- Wasatch Fm. Transition 5350 to 6000 ft.

PBTD @ 5645' KB
TD @ 5700' KB

- Wasatch Formation 6000 ft.



PLUGGING AND ABANDONMENT PLAN

123

NAME AND ADDRESS OF FACILITY

Jonah Unit
Monument Butte Field
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR

Equitable Resources Energy Company
Balcron Oil Division
1601 Lewis Ave. Bldg.
Billings, Mt. 59104LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT - 640 ACRES

STATE

Utah

COUNTY

Duchesne County

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 OF NW 1/4 OF NE 1/4 SECTION 7 TOWNSHIP 9S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location 831 ft. from (N/S) N Line of quarter section

and 182 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
-
- ☒
- Area Permit
-
- ☐
- Rul.

Number of Wells 4

WELL ACTIVITY

- ☐
- CLASS I
-
- ☒
- CLASS II
-
- ☐
- Brine Disposal
-
- ☐
- Enhanced Recovery
-
- ☐
- Hydrocarbon Storage
-
- ☐
- CLASS III

Balcron Monument

Well Number Federal # 31-7

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8 5/8"	24 #		282' KB	12 1/4"
5 1/2"	13.5 #		5691' KB	7 7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒
- The Balance Method
-
- ☐
- The Dump Bailer Method
-
- ☐
- The Two-Plug Method
-
- ☒
- Other Perforate csg and circulate
-
- 2nd plug to surface

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5 1/2"	5 1/2"					
Depth to Bottom of Tubing or Drill Pipe (ft.)	5695' KB						
Sacks of Cement To Be Used (each plug)	260 SK	100 SK					
Slurry Volume To Be Pumped (cu. ft.)	300	115					
Calculated Top of Plug (ft.)	3163' KB	Surface					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8'	15.8'					
Type Cement or Other Material (Class III)	Class-G	Class-G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4903	4910	5100	5106
4914	4917		
5050	5055		
5062	5064		
5080	5086		

Estimated Cost to Plug Wells

\$7000 (Rig & Cement Job)

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

John Zellitti
Senior Production Engineer

SIGNATURE

DATE SIGNED

2-19-94

Exhibit - N
Evidence Of Financial Ability



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

March 31, 1994

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

4 1994

Dear Mr. Jarvis:

Attached is our Affidavit certify that copies of the application and UIC permit were sent to all operators, owners, and surface owners within a one-half mile radius of the proposed injection wells. Those wells are as follows:

Balcron Monument Federal #31-7

Balcron Monument Federal #24-5

Balcron Monument Federal #22-5

Balcron Monument Federal #13-5

Copies of the letters are also enclosed for your information.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosures

AFFIDAVIT

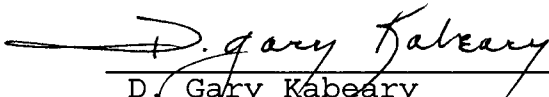
COUNTY OF YELLOWSTONE)

STATE OF MONTANA)

D. Gary Kabeary, Senior Landman for Equitable Resources Energy Company, Balcron Oil Division, being first duly sworn on oath, deposes and says that on the 21st day of March, 1994 he did cause to be mailed to all operators, owners and surface owners within a one-half mile of the proposed injection wells listed below, a copy of the State Application for Injection Well (UIC Form 1).

Balcron Monument Federal #24-5 (SESW 5, T9S-R17E)
Balcron Monument Federal #22-5 (SENW 5, T9S-R17E)
Balcron Monument Federal #13-5 (NWSW 5, T9S-R17E)
Balcron Monument Federal #31-7 (NWNE 7, T9S-R17E)

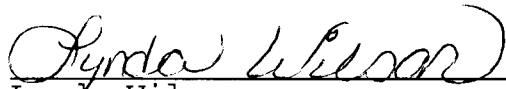
Further affiant saith not.


D. Gary Kabeary

Subscribed and sworn to before me on this 21st day of
March, 1994.

My Commission Expires:

11-18-94


Lynda Wilson
Residing in Billings, MT 59105

S E A L

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: Balcon (Equitable) Wells 31-7, 24-5, 22-5, 13-5
 Location: section 5 & 7 township 9S range 17E

API #: _____ Well Type: disp. _____ enhanced recov. X

If enhanced recovery has project been approved by the Board ? Yes

Lease Type: BLM Surface Ownership: BLM

Field: Monument Butte Unit: Tonah Indian Country: N

UIC Form 1: Yes Plat: Yes (need more detail than provided) Wells in AOR: 15P 13I

Logs Available: Yes Bond Log: no log on 24-5

Casing Program: Diagrams - however want prior and after conversion.

Integrity Test: to be done at conversion. 1000 PSI not 500

Injection Fluid: H₂O. Johnson Water.

Geologic Information: Yes.

Analyses of Injection Fluid: Yes Formation Fluid: Yes Compat. _____

Fracture Gradient Information: Yes. 8661 Parting Pressure _____
2000 600 GALS

Affidavit of Notice to Owners: Yes.

Fresh Water Aquifers in Area: 300-500 feet

Depth Base of Moderately Saline Water: 300-500 feet

Confining Interval: shale, silts, limes.

Reviewer: D. Jones Date: 4/6/94

Comments & Recommendation Bond logs are questionable called
John Zellitti 4/11/94 and requested more
info. Also requested Bond log on 5-24 well.
4/12/94 spoke to Craig Brum Schlumberger
in regards to Bond logs - Wells have bond. (received 4/12/94)

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT
DECISION DOCUMENT**

Applicant: Balcron Oil **Location:** Jonah Unit

Wells: Federal 31-7, 24-5, 22-5, 13-5

Ownership Issues: The proposed wells are located in sections 7 and 5, township 9 south, range 17 east, Duchesne County, Utah. Surface ownership within the 1/2 mile area is held by the BLM and the State of Utah. All of the wells are located on Federal land. Mineral interests are held by private individuals, the State of Utah, and the federal government. Balcron Oil has submitted an affidavit stating that a copy of UIC form 1 was sent as notice to all surface owners and operators within a 1/2 mile radius of each of the proposed injection wells.

Well Integrity: The five wells proposed for conversion to injection all have surface casing set at approximately 300 feet \pm 30 feet, and were all cemented to surface. Production casing was set at a depth of approximately 5600 feet - 5800 feet, and were all cemented above the injection zone. Cement bond logs are on file with the Division and verify reported cement tops. The interval from 4638-5110 feet (Green River Formation) has been perforated for water injection. A 2 7/8 inch tubing with a packer will be set above the perforations for injection of water. There are 14 producing wells and 10 injection wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the production string and have adequate surface casing to prevent migration of fluid up the hole. At the time of conversion the casing will be pressure tested. Casing/tubing annulus pressure will be monitored on a daily basis and reported on a monthly basis thereafter. Additional casing pressure tests shall be run every five years or whenever the tubing and packer assemblies are pulled for workover purposes.

Ground Water Protection: The base of moderately saline water in the area of the project is at a depth of approximately 300-500 feet. Each of the injection wells and offset producing wells have adequate surface casing and sufficient cement on the production casing to protect fresh water. The submitted fracture pressure for the field is .861 psi/ft resulting in a maximum allowed surface pressure of 2000 psi. Injection pressures for each of the injectors will be maintained below the fracture pressure so as not to initiate fractures in the overlying strata. The confining intervals above and below the injection zone consists of tight shales, siltstones and limestones of the Green River Formation. Water analysis indicate that the TDS of injection zone is greater than 10,000 TDS.

Oil/Gas & Other Mineral Resources Protection: Balcron is the operator of the Jonah Unit. A unit agreement was previously formed, correlative rights issues were addressed

before the Board of Oil, Gas and Mining when the matter was heard.

Bonding: Balcron is the operator of all wells within the project and is bonded by the Federal Government.

Actions Taken and Further Approvals Needed: A public notice needs to be published in both the Salt Lake Tribune and the Uinta Basin Standard. The applications for the injection wells are technically complete. A casing pressure test needs to be conducted when the well is converted and a casing/tubing pressure test run prior to injection. The casing tubing annulus needs to be pressured to 1000 psi and not 500 psi as stated in the permit. A step rate test should be run once the wells have injected and stabilized to verify fracture gradient information.

DJJ
Reviewers

04-14-94
Date



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

April 25, 1994

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-149

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

April 25, 1994

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-149

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	NOTICE OF AGENCY ACTION
OF EQUITABLE RESOURCES ENERGY	:	
COMPANY FOR ADMINISTRATIVE	:	CAUSE NO. UIC-149
APPROVAL TO CONVERT THE FEDERAL	:	
24-5, FEDERAL 22-5, FEDERAL 13-5,	:	
AND FEDERAL 31-7 WELLS LOCATED IN	:	
SECTIONS 5 & 7, TOWNSHIP 9 SOUTH,	:	
RANGE 17 EAST, S.L.M., DUCHESNE	:	
COUNTY, UTAH, TO CLASS II INJECTION	:	
WELLS	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

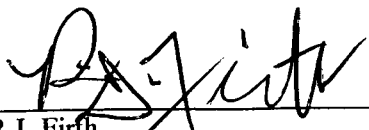
Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Equitable Resources Energy Company ("Equitable") for administrative approval to convert the Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells, located in Sections 5 & 7, Township 9 South, Range 17 East, Duchesne County, Utah, to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

Equitable proposes to inject water into the captioned wells in the Green River Formation interval at approximately 4638 - 5110 feet, for the purpose of secondary recovery operations. Equitable is requesting a maximum injection pressure of 2145 psig and estimates the injection volume to be approximately 600 barrels of water per day for each well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of April, 1994.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director, Oil and Gas

**Equitable Resources Energy Company
Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells
Cause No. UIC-149**

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

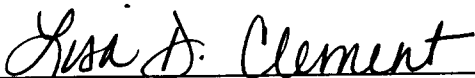
Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Equitable Resources Energy Company
P.O. Box 21017
Billings, Montana 59104

Tom Pike
U.S. Environmental Protection Agency
Region VIII
999 18th Street
Denver, Colorado 80202-2466

Ed Bonner
State Lands and Forestry
3 Triad Center, Suite 400
Salt Lake City, Utah 84180-1204



Lisa D. Clement
Administrative Secretary
April 25, 1994

143 SOUTH MAIN ST
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX ID. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune

DESERET NEWS

CUSTOMER'S
COPY

LEGAL ADVERTISING INVOICE

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV OF OIL, GAS & MINING 355 WEST NORTH TEMPLE 3 TRIAD CENTER #350 SLC, UT 84	LE-5385340	05/03/94
FOR BILLING INFORMATION CALL (801) 237-2822		

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE NO. UIC-149 BEFOR DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY, IN THE STATE OF UTAH.

PUBLISHED ON MAY 03 1994

SIGNATURE

05/03/94

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-149
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF EQUITABLE RESOURCES ENERGY COMPANY FOR ADMINISTRATIVE APPROVAL TO CONVERT THE FEDERAL 24-5, FEDERAL 22-5, FEDERAL 13-5, AND FEDERAL 31-7 WELLS LOCATED IN SECTION 5 & 7, TOWNSHIP 9 SOUTH, RANGE 17 EAST, S.L.M., DUCHESNE COUNTY, UTAH, TO CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Equitable Resources Energy Company ("Equitable") for administrative approval to convert the Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 wells, located in Section 5 & 7, Township 9 South, Range 17 East, S.L.M., Duchesne County, Utah, to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R. 649-10, Administrative Procedures.

Equitable proposes to inject water into the captioned wells in the Green River Formation interval at approximately 4638 to 5110 feet, for the purpose of secondary recovery operations. Equitable is requesting a maximum injection pressure of 2145 psig and estimates the injection volume to be approximately 600 barrels of water per day for each well.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing may be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 17th day of April, 1994.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
/s/ R. J. Firth
Associate Director, Oil and Gas
41820040

ACCOUNT NAME			TELEPHONE
& MINING			801-538-5340
SCHEDULE			AD NUMBER
			4T820040
D.	CAPTION		MISC. CHARGES
	NOTICE OF AGENCY ACTION CAUSE NO. UIC-149 BEFOR		.00
	TIMES	RATE	AD CHARGE
COLUMN	1	1.64	154.16
N RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE	154.16

THANK YOU FOR USING LEGAL ADVERTISING.

PLEASE RETURN THIS PORTION WITH YOUR PAYMENT IN THE ENCLOSED ENVELOPE

LEGAL ADV06-NT

ACCOUNT NUMBER	AD NUMBER	BILLING DATE	PAY THIS AMOUNT
LE-5385340	4T820040	05/03/94	154.16

LEGAL ADVERTISING

PLEASE REMIT TO:

NEWSPAPER AGENCY CORPORATION
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145-0838

MAKE CHECKS PAYABLE TO:
NEWSPAPER AGENCY CORPORATION

DIV OF OIL, GAS & MINING
355 WEST NORTH TEMPLE
3 TRIAD CENTER #350
SLC, UT 84180

07642470620040900000000000000015416187535817311510111111111111111126527

AFFIDAVIT OF PUBLICATION

County of Duchesne,

STATE OF UTAH

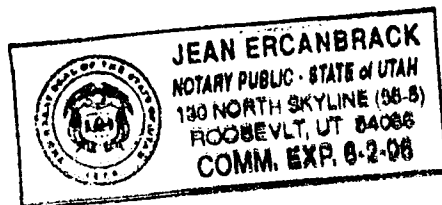
I, Craig L. Ashby on oath, say that I am the
PUBLISHER of the Uintah Basin Standard, a weekly
newspaper of general circulation, published at
Roosevelt, State and County aforesaid, and that a certain
notice, a true copy of which is hereto attached, was
published in the full issue of such newspaper
for 1 consecutive issues, and that the first
publication was on the 3 day of May,
1994, and that the last publication of such notice was
in the issue of such newspaper dated the 3 day
of May, 1994.

Subscribed and sworn to before me this

5 day of May, 1994

Jean Ercanbrack

Notary Public



NOTICE OF AGENCY ACTION

CAUSE NO. UIC-149

IN THE MATTER OF
THE APPLICATION OF
EQUITABLE RE-
SOURCE ENERGY
COMPANY FOR AD-
MINISTRATIVE AP-
PROVAL TO CONVERT
THE FEDERAL 24-5,
FEDERAL 22-5, FED-
ERAL 13-5, AND FED-
ERAL 31-7 WELLS LO-
CATED IN SECTIONS 5
& 7, TOWNSHIP 9
SOUTH, RANGE 17
EAST, S.L.M.,
DUCHESNE COUNTY,
UTAH, TO CLASS II IN-
JECTION WELLS

THE STATE OF UTAH
TO ALL PERSONS IN-
TERESTED IN THE
ABOVE ENTITLED
MATTER.

Notice is hereby given
that the Division is com-
mencing an informal adju-
dicative proceeding to con-
sider the application of
Equitable Resources En-
ergy Company ("Equi-
table") for administrative
approval to convert the
Federal 24-5, Federal 22-
5, Federal 13-5, and Fed-
eral 31-7 Wells, located in
Sections 5 & 7, Township
9 South, Range 17 East,
Duchesne County, Utah, to
Class II injection wells. The
proceeding will be con-
ducted in accordance with
Utah Admin. R. 649-10,
Administrative Proce-
dures.

Equitable proposes to
inject water into the cap-
tioned wells in the Green
River Formation interval at
approximately 4638-5110
feet, for the purpose of sec-
ondary recovery opera-
tions. Equitable is request-
ing a maximum injection
pressure of 2145 psig and
estimates the injection vol-
ume to be approximately
600 barrels of water per
day for each well.

Any person desiring to
object to the application or
otherwise intervene in the
proceeding, must file a
written protest or notice of
intervention with the Divi-
sion within fifteen days of
the date of publication of
this notice. Is such a pro-
test or notice of interven-
tion is received, a hearing
may be scheduled before
the Board of Oil, Gas and
Mining. Protestants and/or
intervenor should be pre-
pared to demonstrate at the
hearing how this matter
affects their interest.

DATED this 15th day of
April, 1994.

STATE OF UTAH DI-
VISION OF OIL, GAS
AND MINING R.J. Firth,
Associate Director, Oil and
Gas

Published in the Uintah
Basin Standard May 3,
1994

COPY



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-149

Operator: Equitable Resources Company

Wells: Federal 24-5, Federal 22-5, Federal 13-5 and
Federal 31-7

Location: Sections 5 and 7, Township 9 S, Range 17 E,
Duchesne County

API No.: 43-013-31375, 43-013-31384
43-013-31370, 43-013-31405

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Wells issued on
May 24, 1994.
2. Maximum Allowable Injection Pressure: 2145 psig
3. Maximum Allowable Injection Rate: 600 barrels per day

Approved by:

R.J. Firth
Associate Director, Oil and Gas

Date



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

May 24, 1994

Equitable Resources Energy Company
Balcron Oil Division
1601 Lewis Avenue
Billings, Montana 59104

Re: Federal 24-5, Federal 22-5, Federal 13-5, and Federal 31-7 Wells Located in Sections 5 and 7, Township 9 South, Range 17 East, Duchesne County, Utah

Gentlemen:

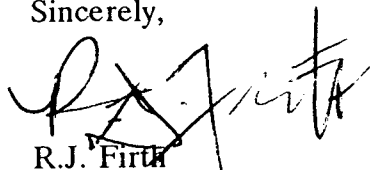
In accordance with Utah Admin. Code R.649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced wells to Class II injection wells.

The following stipulations shall apply for compliance with this approval:

1. Full compliance with all applicable requirements regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.
2. Conformance with all conditions and requirements of the enclosed Underground Injection Control Permit and the application submitted by Equitable Resources Energy Company.

If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,


R.J. Firth
Associate Director

cc: Dan Jackson, EPA
Bureau of Land Management, Vernal



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

SEP 21 1994

September 19, 1994

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are Notices of Intent to convert the four wells on the enclosed list to water injection.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Dan Jarvis, Utah Division of Oil, Gas and Mining

Balcron Monument Federal #13-5
NW SW Section 5, T9S, R17E
Duchesne County, Utah
1980' FNL, 660' FWL
Federal Lease #U-020252
API #43-013-31370
Jonah Unit
Monument Butte Field/Green River Formation

Balcron Monument Federal #22-5
SE NW Section 5, T9S, R17E
Duchesne County, Utah
1853' FNL, 1980' FWL
Federal Lease #U-020252
API #43-013-31384
Jonah Unit
Monument Butte Field/Green River Formation

Balcron Monument Federal #24-5
SE SW Section 5, T9S, R17E
Duchesne County, Utah
765' FSL, 2243' FWL
Federal Lease #U-020252
API #43-013-31375
Jonah Unit
Monument Butte Field/Green River Formation

Balcron Monument Federal #31-7J
NW NE Section 7, T9S, R17E
Duchesne County, Utah
831' FNL, 1782' FEL
Federal Lease #U-44426
API #43-013-31405
Jonah Unit
Monument Butte Field/Green River Formation

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 21 1994

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
See attached listing

5. Lease Designation and Serial No.
See attached listing

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
Jonah Unit

8. Well Name and No.
See attached listing

9. API Well No.
See attached listing

10. Field and Pool, or Exploratory Area
Monument Butte/Green River

11. County or Parish, State

Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☒ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator intends to convert the wells on the attached listing to water injection in accordance with the attached injection well completion diagrams. Water will be injected at a rate of 5-6 STBWPDP per foot of pay (average 180-200 STBWPDP). The proposed conversion will commence as soon as approval is received from the BLM and the State of Utah. Injection will commence as soon as approval of the UIC permit is received.

14. I hereby certify that the foregoing is true and correct

Regulatory and

Environmental Specialist

Date 9-17-94

Signed Bobbie Schuman
(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

BALCRON MONUMENT FEDERAL #13-5
NW 3/4 SEC.5, T9S, R17E
Lease No. #U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

BALCRON OI
7-26-94

Proposed Injection well Completion Diagram

Elev.GR @ 5223'
Elev.KB @ 5236' (13' KB)

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 246.10'
Landed @ 256' KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#
133 jts @ 5758.95'
Landed @ 5751' KB
Cemented w/166 sxs Hilift &
259 sxs Class "G"
Cement top @ 2570' KB from CBL
Hole Size @ 7 7/8"

TUBING

2 7/8", J-55, 6.5#
SN @ 2 7/8" x 1.10'
SN Landed @ 4574' KB

Retrievable Csg Tension Packer
Model: Arrow Set-1
Landed @ 4578' KB

Proposed Injection Horizons

4638'-4649' (11') 6 shots RED1
4788'-4804' (15') 8 shots RED5
5106'-5110' (4') 2 SPF GREEN4
5510'-5516' (6') 2 SPF BLUE1



<-- 256' KB

- Uinta Formation Surface to 1400'

<-- Cement Top @ 2570' KB

- Green River Formation 1400' to 4100'

<-- Retrievable Csg Tension Packer @ 4578' KB

PERFORATION RECORD

4638'-4649' (11') 6 shots RED1
4788'-4804' (15') 8 shots RED5
5510'-5516' (6') 2 SPF BLUE1
5510'-5516' (6') 2 SPF RE-PERF
Proposed Reperf:
4638'-4648' w/2 SPF
4788'-4804' w/2 SPF
Proposed Additional Perfs:
5106'-5110' w/2 SPF GREEN4

- Douglas Creek Member 4100 - 5350 ft.
- Wasatch Fm. Transition 5350 - 6000 ft.
PBTD @ 5703' KB
TD @ 5750' KB

- Wasatch Formation 6000 ft.



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

OCT 18

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

October 17, 1994

-- VIA FEDERAL EXPRESS --

Mr. Gus Stolz
Environmental Protection Agency
UIC Program (Mail Code 8WM-DW)
999 - 18th Street
Suite 500
Denver, CO 80202-2405

Dear Mr. Stolz:

Enclosed are Well Rework Records and copies of the Mechanical Integrity Tests which were run on the following wells:

Balcron Monument Federal #13-5J

Balcron Monument Federal #22-5J

Balcron Monument Federal #31-7J

Balcron Monument Federal #24-5J

Also enclosed are the original charts for these wells. This should complete the necessary paperwork and we are requesting verbal approval to commence injection as soon as possible.

If you have any questions, please give either me or John Zellitti a call at (406) 259-7860.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining
Bureau of Land Management, Vernal District



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal District Office

170 South 500 East

Vernal, Utah 84078



IN REPLY REFER TO:

Phone (801) 789-1362

FAX (801) 789-3634

MECHANICAL INTEGRITY PRESSURE TEST CASING/TUBING ANNULUS

Lease No. 11-020050

Company Name: Polaron

Date: 10-14-94

Well Name: Manhattan E. 13-5T Permit No. UTU-2642-04208

Field Name: Town Unit

County: Lucas

Well Location: 111154 Sec 5 T 9S R 17E

Well Type: SWD ER 2H Other:

Type of Packer: Total Depth: 5750

Packer Set at (depth): 4571 FT

Surface Casing Size: 9 5/8 From: Surface FT to 256 FT

Casing Size: 5 1/2 From: Surface FT to 5751 FT

Tubing Size: 2 7/8 Tubing Pressure during Test: 190 psig

Time of Day: 11:00 (am)/pm

Fluid in Annulus: 65 gal. Porten R-2383 Fluid 1/4 75 BBL 2% KCL Water

Test #1

Test #2

0 Min:	<u>975</u>	psig
5	<u>880</u>	psig
10	<u>890</u>	psig
15	<u>890</u>	psig
20	<u>920</u>	psig
25	<u>920</u>	psig
30	<u>910</u>	psig
35	<u>910</u>	psig
40	<u>920</u>	psig
45	<u>920</u>	psig
50	<u>920</u>	psig
55	<u>920</u>	psig
60	<u>920</u>	psig

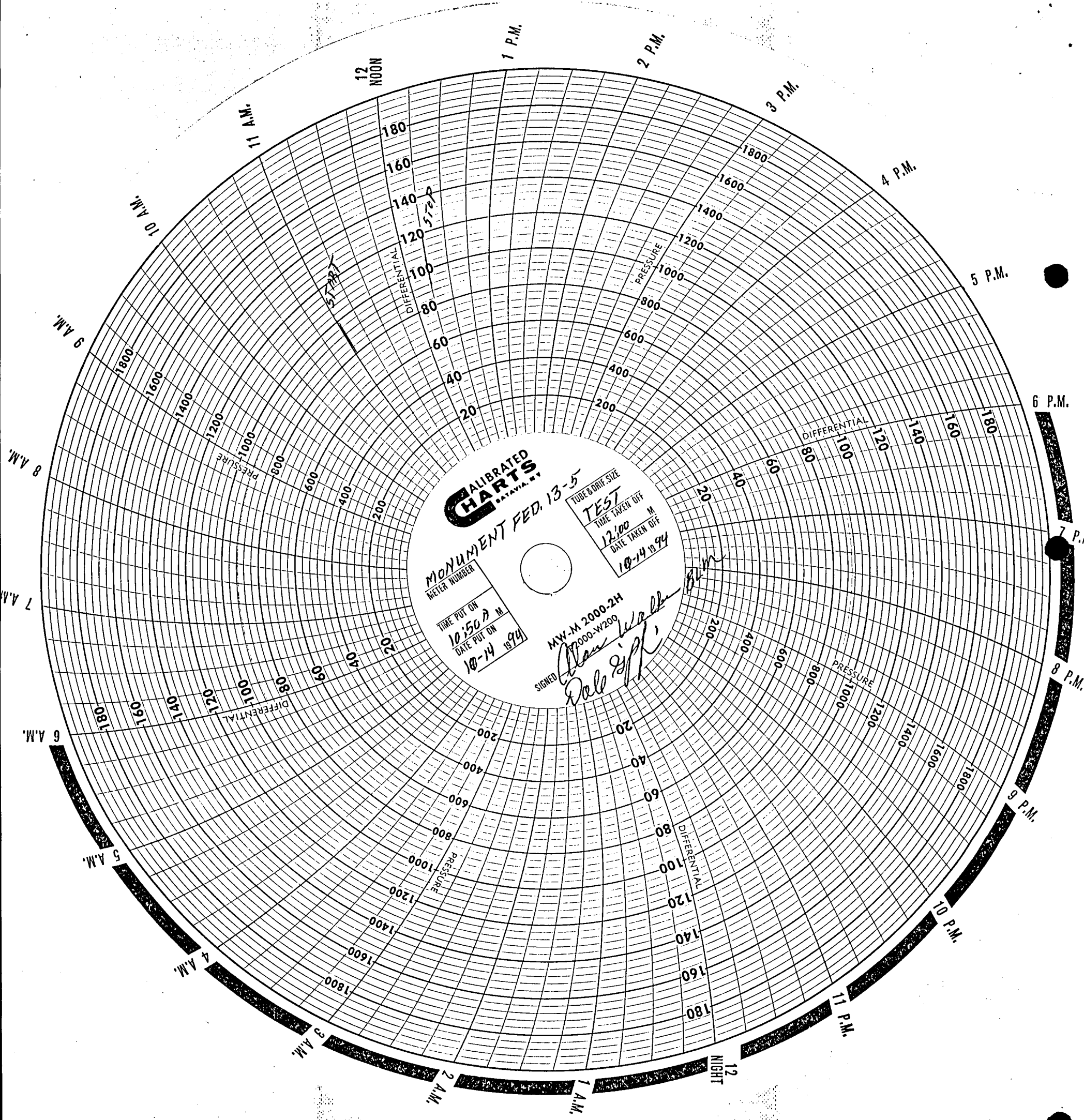
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig
_____	psig

Blend Pressure of tubing from 850 to 190 before starting test

Test Conducted by: Dale Griffin

Inspected by: A. Walker

Others Present:



BALCRON OIL**WELL REPORT**

WELL NAME: Balcron Monument Federal #13-5J
FIELD: Monument Butte/Jonah Unit
FEDERAL LEASE NO.: #U-020252
LOCATION: NW SW Sec.5, T9S, R17E
COUNTY/STATE: Duchesne County, Utah
WORKING INTEREST: 0.805079506
PRODUCING FORMATIO Green River
COMPLETION DATE: 9-24-93
INITIAL PRODUCTION: 60 STBOPD, 20 STBWPD, 36 MCFP
OIL/GAS PURCHASER: Amoco/Universal Resources
PRESENT PROD STATUS 17 STBOPD, 0 MCFPD, 0 STBWPD
ELEVATIONS - GROUND: 5223'
TOTAL DEPTH: 5750' KB

DATE: 7-26-94
API NO.: 43-013-31370

NET REVENUE INT.: 0.73831617 Oil
0.66359285 Gas
SPUD DATE: 8-10-93
OIL GRAVITY: 34 API
BHT: 139 Deg.F
KB: 5236' (13' KB)
PLUG BACK TD: 5703' KB

SURFACE CASING

STRING: 1
CSG SIZE: 8 5/8"
GRADE: J-55
WEIGHT: 24 lbs.
LENGTH: 6 jts @ 246.10'
DEPTH LANDED: 256' KB
HOLE SIZE: 12 1/4"
CEMENT DATA: 150 sxs Class "G"
Cement to Surface

PRODUCTION CASING

STRING: 1
CSG SIZE: 5 1/2"
GRADE: K-55
WEIGHT: 15.5 lbs.
LENGTH: 133 jts @ 5758.95'
DEPTH LANDED: 5751' KB
HOLE SIZE: 7 7/8"
CEMENT DATA: 166 sxs Hilift &
258 sxs Class "G"
CEMENT TOP AT: 2570' KB from CBL

TUBING RECORD

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5#
NO. OF JOINTS: 148 jts @ 4594.68'
TUBING ANCHOR: 2 7/8"x 2.75' (Trico)
NO. OF JOINTS: 30 jts @ 932.26'
SEATING NIPPLE: 2 7/8" x 1.10' (2.25" ID)
PERF. SUB: 2 7/8" x 3'
MUD ANCHOR: 2 7/8" x 31.50'
TOTAL TUBING LENGTH: 5567.98'
SN LANDED AT: 5546.48' KB

PERFORATION RECORD

4638'- 4649' (11') 6 shots RED1
4789'- 4804' (15') 8 shots RED5
5106'- 5110' (4') 16 shots GREEN4
5510'- 5516' (6') 12 shots BLUE1
5510'- 5516' (6') 12 shots RE-PERF
Reperforation 9-2-94:
4638'- 4648' (10') 20 shots RED1
4788'- 4804' (16') 32 shots RED5

Added perforations 5106'- 5110' GREEN4 9-2-94

SUCKER ROD RECORD

1 - 1 1/4" x 16' Polished Rod SM
1 - 3/4" x 2' Pony
2 - 3/4" x 4' Ponies
2 - 3/4" x 6' Ponies
214 - 3/4" x 25' Grade D Plain Rods
6 - 1" x 25' EL Rods w/2 1/2 Riton Guides

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC
STROKE LENGTH: 86" Stroke
PUMP SPEED, SPM: 4.5 SPM
PUMPING UNIT SIZE:

LOGS: Dual Laterolog, Micro-Spherically Focused
Log, Compensated Neutron, Gamma Ray

BREAKDOWN/ACID JOB

SEE NEXT PAGE

FRAC JOB

SEE NEXT PAGE

Balcron Monument Federal #13-5
Monument Butte/Jonah Unit
NW SW Sec.5, T9S, R17E
Duchesne County, Utah

BREAK DOWN/ACID JOB

4638'- 4649', Halliburton, Initial break @ 3000
psig @ 2.4 BPM, start 1 ball per BOW. 1700
psig @ 2.5 BPM. No ball off, surge balls back,
Pump for rate 6.2 BPM @ 2500 psig.

4789'- 4804', Initial break 2800 to 2500 psig
@ 4 BPM, Start 1 ball per BOW. Ball off, surge
balls back. Pump for rate 4.4 BPM @ 2500 psig.

5510'- 5516', Western, initial break @ 3200
psig @ 0.5 BPM. Break back to 2600 psig, start
balls, 1 ball/bbl, pump 4 BOW, 4 balls. Press
climbed to 4000 psig, pumped total of 9 balls,
26 BOW, End press 4000 psig @ 0.2 STBWPM.

5510'- 5516', Western, pump 500 gal HCL w/1
ball per bbl. Pump 12 bbls of acid. Try to
pump acid on formation, 4000 psig, would not
pump. (Re-Perforate 5510'- 5516').

5510'- 5516' Start 15% HCL acid, 500 gals, 1
ball per bbl, avg 4 BPM @ 2200 psig, max 6.4
BPM @ 4100 psig, ISIP @ 1500 psig.

5106'- 5110' Breakdown w/Western on 9-2-94.
3192 gals 2% KCl water w/25 ball sealers.
4 STBPM @ 3800 psig, ISIP @ 1990 psig.

4638'- 4648' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/52 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

4788'- 4804' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/80 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

FRAC JOB

4638'- 4804', Frac w/Western on 9-10-93.
20,454 gals gelled water w/20,000 lbs
20-40 sand & 36,700 lbs 16-30 sand.
Avg 24.5 BPM @ 2700 psig, Max 32.8 BPM
@ 3040 psig. ISIP @ 2500 psig, 5 min
@ 1950 psig, 10 min @ 1880 psig,
15 min @ 1820 psig.

5510'- 5516', Frac w/Western on 9-3-93.
10,290 gals Viking I #35 w/15,000 lbs
20-40 sand. Avg 19.8 BPM @ 1990 psig,
Max 20.2 BPM @ 2140 psig. ISIP @ 1750
psig, 5 min @ 1560 psig, 10 min @ 1430
psig, 15 min @ 1400 psig.

5106'- 5110', Frac w/Western on 9-2-94.
7,266 gals gelled water w/15,100 lbs
16-30 mesh sand.
Avg 8.0 BPM @ 4700 psig, Max 17.0 BPM
@ 4900 psig. ISIP @ 3040 psig, 5 min
@ 1890 psig, 10 min @ 1560 psig,
15 min @ 1450 psig.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
U-020252

6. If Indian, Allottee or Tribe Name
n/a

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Jonah Unit

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other WIW

8. Well Name and No.
Balcron Monument Federal #13-5

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31370

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW SW Section 5, T9S, R17E.
1980' FSL, 660' FWL

10. Field and Pool, or Exploratory Area
Monument Butte/Green River
11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well has been converted to water injection in accordance with permit approval. Refer to the attached workover procedure, well report, and injection well completion diagram for details of the conversion.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman
(This space for Federal or State office use)

Regulatory and
Title Environmental Specialist

Date January 13, 1995

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Date

Work Description

Conversion of well to water injection.

9-1-94
Through
9-7-94

Reperforate RED1 & RED5 zones, Add additional perforations GREEN4 zone & frac.

- MIRU Basin Well Service, TOO H w/rods,pump, & tbg.
- RIH w/bit & scrapper to TD.
- RU Cutter Wireline & perf from 5106'- 5110' KB w/4 SPF.
- RIH w/RBP & pkr, RU Western, breakdown & frac as follows:

Breakdown: 3192 gals 2% KCl water w/25 ball sealers.
4 STBPM @ 3800 psig, ISIP @ 1990 psig.

Frac: 7,266 gals gelled water w/15,100 lbs
16-30 mesh sand.
Avg 8.0 BPM @ 4700 psig, Max 17.0 BPM
@ 4900 psig. ISIP @ 3040 psig, 5 min
@ 1890 psig, 10 min @ 1560 psig,
15 min @ 1450 psig.

- RU Cutter Wireline & perf from 4638'- 4648' KB & 4788'- 4804' KB w/4 SPF.
- RIH w/RBP & pkr, RU Western & breakdown perms as follows:

Breakdown: 4638'- 4648' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/52 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

Breakdown: 4788'- 4804' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/80 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

- Circulate ball sealers off RBP & ret. RPB, swab well to clean up frac.
- RIH w/ production tbg, pump, & rods, hang well on, RDMO.
- Return well to production.

10-1-94

Convert well to water injection.

- MIRU Cannon Well Service, TOO H w/ rods, pump, & tbg.
- RIH w/ 2 7/8" injection tbg & Arrow Set-1 packer.
- Pump 55 gals Champion Cortron #23-83 corrosion inhibitor mixed w/ 60 STBW down csg.
- Set packer @ 4578' KB, NU wellhead, pressure test csg annulus to 1000 psig, no loss, RDMO.

10-14-94

Perform MIT, pressure csg annulus to 875 psig, pressure increased to 910 psig in one hour, tbg @ 190 psig, BLM witness Alan Walker, Company witness Dale Griffin, other witness Ken Adler w/ Adler Hot Oil Service.

10-20-94

RU Alnighther Hot Oil Service, mix 5 gals Wsetem Claymaster & 10 gals 940 surfactant w/ 130 STB 2% KCl water, pump down tbg @ 180 deg.F., 1.5 STBPM @ 900 psig, csg @ zero psig, start water injection @ 250 STBPD.

Balcron Monument Federal #13-5J
NW SW SEC.5, T9S, R17E
1980'FNL & 660' FWL
Lease No. #U-020252
MONUMENT BUTTE FIELD/JONAH UNIT
DUCHESNE COUNTY, UTAH

BALCRON OIL
1-9-94 JZ

Injection well Completion Diagram

Elev.GR @ 5223'
Elev.KB @ 5236' (13' KB)

SURFACE CASING

8 5/8", J-55, 24#
Six jts @ 246.10'
Landed @ 256' KB
Cemented w/150 sxs Class "G"
Cement to surface
Hole Size @ 12 1/4"

PRODUCTION CASING

5 1/2", K-55, 15.5#
133 jts @ 5758.95'
Landed @ 5751' KB
Cemented w/166 sxs Hilift &
259 sxs Class "G"
Cement top @ 2570' KB from CBL
Hole Size @ 7 7/8"

TUBING/INJECTION STRING

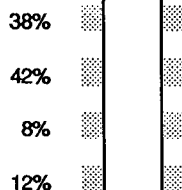
2 7/8", 6.5#, J-55
145 jnts @ 4558.06'
SN @ 2 7/8" X 1.1' (2.25" ID)
5.5" Arrow Set-1 Pkr @ 6.20'
Total String Length @ 4565.36'
SN Landed @ 4572.16' KB
Packer Landed @ 4578.36' KB

2 7/8" SN ID @ 2.25".
Arrow Set-1 Pkr set w/ 16" Tension.
Packer fluid - 55 gals Champion Contron #23-83
w/ 60 STBW.

Injection Horizons

4638'- 4649' (11') 6 shots RED1
4788'- 4804' (15') 8 shots RED5
5106'- 5110' (4') 2 SPF GREEN4
5510'- 5516' (6') 2 SPF BLUE1

Tracer Survey ran 12-16-94



EPA PERMIT NO.: UT2642-04208
UTAH CAUSE NO.: UIC-149

PERFORATION RECORD

4638'- 4649' (11') 6 shots RED1
4789'- 4804' (15') 8 shots RED5
5106'- 5110' (4') 16 shots GREEN4
5510'- 5516' (6') 2 SPF BLUE1
5510'- 5516' (6') 2 SPF RE-PERF
Reperforated on 9-2-94:
4638'- 4648' w/2 SPF RED1
4788'- 4804' w/2 SPF RED5
Added Perforations on 9-2-94:
5106'- 5110' w/2 SPF GREEN4

- Douglas Creek Member 4100 - 5350 ft.
- Wasatch Fm. Transition 5350 - 6000 ft.
PBTD @ 5703' KB
TD @ 5750' KB

- Wasatch Formation 6000 ft.

BALCRON OIL

WELL NAME: Balcron Monument Federal #13-5
 FIELD: Monument Butte/Jonah Unit
 FEDERAL LEASE NO.: #U-020252
 NW SW Sec.5, T9S, R17E
 1980' FNL & 660' FWL
 COUNTY/STATE: Duchesne County, Utah
 WORKING INTEREST: 0.805079506
 PRODUCING FORMATION: Green River
 COMPLETION DATE: 9-24-93
 INITIAL PRODUCTION: 60 STBOPD, 36 MCFPD, 0 STBWD
 LAST PRODUCTION: 9 STBOPD, 30 MCFPD, 0 STBWD
 PRESENT PROD STATUS: Water Injection Well
 Started Water injection 10-20-94
 CONVERSION TO INJ.: 10-1-94
 INJECTION RATE: 250 STBWD
 ELEVATIONS - GROUND: 5223'
 TOTAL DEPTH: 5750' KB

SURFACE CASING

STRING: 1
 CSG SIZE: 8 5/8"
 GRADE: J-55
 WEIGHT: 24 lbs.
 LENGTH: 6 jts @ 246.10'
 DEPTH LANDED: 256' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 150 sxs Class "G"
 Cement to Surface

TUBING/INJECTION STRING

Injection Equipment & Size	Length FT.	Setting Depth FT.(w/13' KB)
KB	13.00	
1) 140 jnts 2 7/8" tbg	4558.06	4571.06
2) 2 7/8" SN (2.25" ID)	1.10	4572.16
3) 5.5" Arrow Set-1 Pkr End of Tubing	6.20	4578.36

Injection Packers Set 10-1-94 By Mtn States.

2 7/8" SN ID @ 2.25".

Arrow Set-1 Pkr set w/ 16" Tension.

Packer fluid - 55 gals Champion Cortron #23-83 w/60 STBW.

Injection Horizons

4638'- 4649' (11') 6 shots RED1
 4788'- 4804' (15') 8 shots RED5
 5106'- 5110' (4') 2 SPF GREEN4
 5510'- 5516' (6') 2 SPF BLUE1

LOGS: Dual Laterolog, Micro-Spherically Focused
 Log, Compensated Neutron, Gamma Ray

WELL REPORT

DATE: 7-26-94

API NO.: 43-013-31370
 EPA PERMIT NO.: UT2642-04208
 UTAH CAUSE NO.: UIC-149

NET REVENUE INT.: 0.73831617 Oil
 0.66359285 Gas

SPUD DATE: 8-10-93
 OIL GRAVITY: 34 API
 BHT: 139 Deg.F

LAST MIT DATE: 10-14-94
 875 to 920 psig in 1 hr.
 KB: 5236' (13' KB)
 PLUG BACK TD: 5703' KB

PRODUCTION CASING

STRING: 1
 CSG SIZE: 5 1/2"
 GRADE: K-55
 WEIGHT: 15.5 lbs.
 LENGTH: 133 jts @ 5758.95'
 DEPTH LANDED: 5751' KB
 HOLE SIZE: 7 7/8"
 CEMENT DATA: 166 sxs Hilift &
 258 sxs Class "G"
 CEMENT TOP AT: 2570' KB from CBL

PERFORATION RECORD

4638'- 4649' (11') 6 shots RED1
 4789'- 4804' (15') 8 shots RED5
 5106'- 5110' (4') 16 shots GREEN4
 5510'- 5516' (6') 12 shots BLUE1
 5510'- 5516' (6') 12 shots RE-PERF
 Reperforated on 9-2-94:
 4638'- 4648' w/2 SPF RED1
 4788'- 4804' w/2 SPF RED5
 Added Perforations on 9-2-94:
 5106'- 5110' w/2 SPF GREEN4

BREAKDOWN/ACID JOB

SEE NEXT PAGE

FRAC JOB

SEE NEXT PAGE

Balcron Monument Federal #13-5
Monument Butte/Jonah Unit
NW SW Sec.5, T9S, R17E
Duchesne County, Utah

Well Report Continued

BREAK DOWN/ACID JOB

4638'- 4649', Halliburton, Initial break @ 3000 psig @ 2.4 BPM, start 1 ball per BOW. 1700 psig @ 2.5 BPM. No ball off, surge balls back, Pump for rate 6.2 BPM @ 2500 psig.
4789'- 4804', Initial break 2800 to 2500 psig @ 4 BPM, Start 1 ball per BOW. Ball off, surge balls back. Pump for rate 4.4 BPM @ 2500 psig.
5510'- 5516', Western, initial break @ 3200 psig @ 0.5 BPM. Break back to 2600 psig, start balls, 1 ball/bbl, pump 4 BOW, 4 balls. Press climbed to 4000 psig, pumped total of 9 balls, 26 BOW, End press 4000 psig @ 0.2 STBWPM.
5510'- 5516', Western, pump 500 gal HCL w/1 ball per bbl. Pump 12 bbls of acid. Try to pump acid on formation, 4000 psig, would not pump. (Re-Perforate 5510'- 5516').
5510'- 5516' Start 15% HCL acid, 500 gals, 1 ball per bbl, avg 4 BPM @ 2200 psig, max 6.4 BPM @ 4100 psig, ISIP @ 1500 psig.

5106'- 5110' Breakdown w/Western on 9-2-94.
3192 gals 2% KCl water w/25 ball sealers.
4 STBPM @ 3800 psig, ISIP @ 1990 psig.

4638'- 4648' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/52 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

4788'- 4804' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/80 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

FRAC JOB

4638'- 4804', Frac w/Western on 9-10-93.
20,454 gals gelled water w/20,000 lbs
20-40 sand & 36,700 lbs 16-30 sand.
Avg 24.5 BPM @ 2700 psig, Max 32.8 BPM @ 3040 psig. ISIP @ 2500 psig, 5 min @ 1950 psig, 10 min @ 1880 psig, 15 min @ 1820 psig.

5510'- 5516', Frac w/Western on 9-3-93.
10,290 gals Viking I #35 w/15,000 lbs
20-40 sand. Avg 19.8 BPM @ 1990 psig, Max 20.2 BPM @ 2140 psig. ISIP @ 1750 psig, 5 min @ 1560 psig, 10 min @ 1430 psig, 15 min @ 1400 psig.

5106'- 5110', Frac w/Western on 9-2-94.
7,266 gals gelled water w/15,100 lbs
16-30 mesh sand.
Avg 8.0 BPM @ 4700 psig, Max 17.0 BPM @ 4900 psig. ISIP @ 3040 psig, 5 min @ 1890 psig, 10 min @ 1560 psig, 15 min @ 1450 psig.



EQUITABLE RESOURCES
ENERGY COMPANY

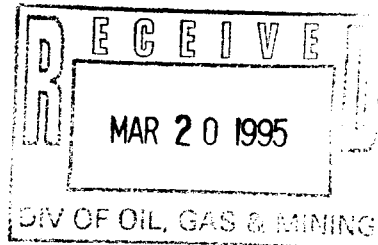
BALCRON OIL DIVISION

1601 Lewis Avenue
Billings, MT 59102

Office: (406) 259-7860

FAX: (406) 245-1365 ☐

FAX: (406) 245-1361 ☒



March 16, 1995

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Dear Mr. Jarvis:

Attached are copies of the injection profile reports for our enhanced recovery wells in the Jonah Unit.

If you have any questions, please call John Zellitti at (406) 259-7860.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

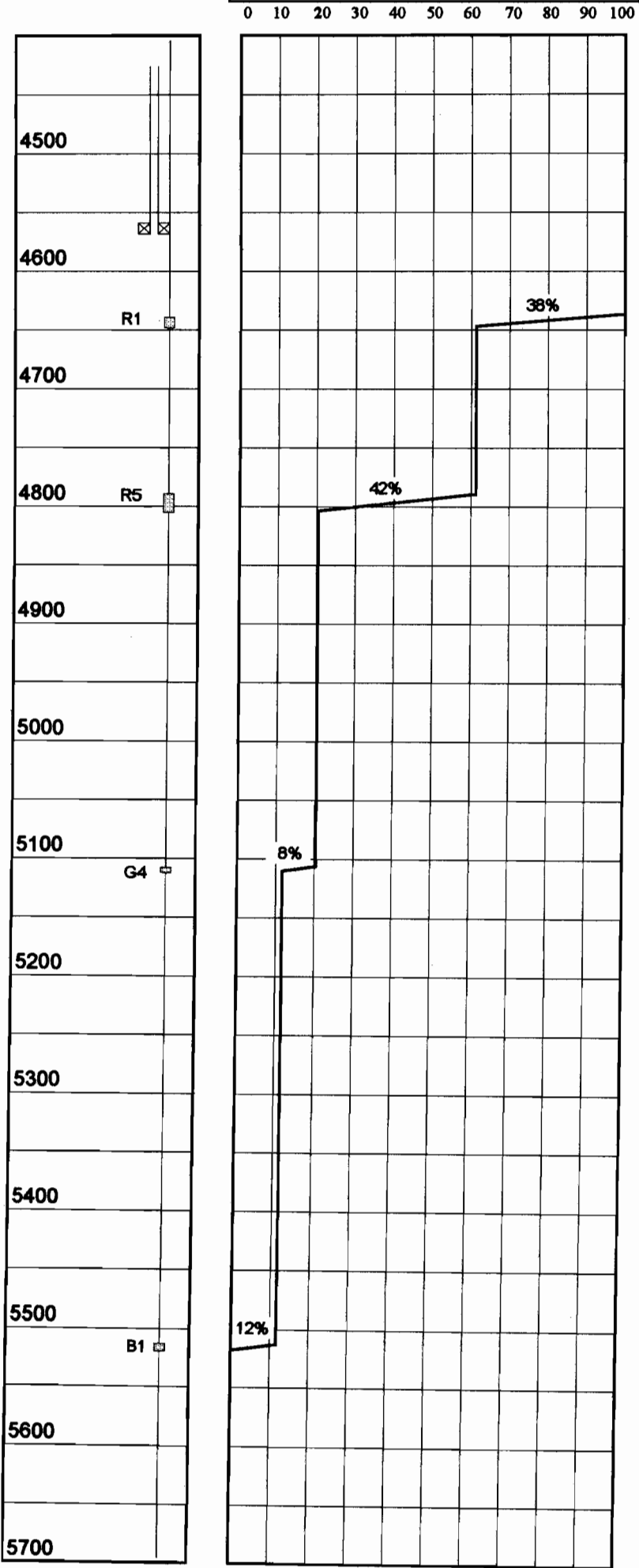
Attachments

EQUITABLE RESOURCES ENERGY COMPANY-BALCRON OIL DIVISION

INJECTION PROFILE

BALCRON MONUMENT
FEDERAL 13-5J

Date: 12/16/94	Desired Rate: 250 B/D
Surface Temp: 49 F	Metered Rate: 270 B/D
BHT: 154 F	Measured Rate: 211 B/D
PBTD: 5703	Tbg Pressure: 1400 PSI
TD: 5683	Csg Pressure: 0 PSI



95-17E-5

43-013-31370

Remarks: R/A Tracer survey indicates exits as shown. Packer checks okay.
Service Company: Well Information Services, Inc.
Operator: Bart Williams



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
Billings, MT 59102

APR 4 1996

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

April 1, 1996

Mr. Dan Jarvis
Utah Division of Oil, Gas and Mining
UIC Program
355 West North Temple
Salt Lake City, UT 84180

Dear Dan:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a listing of permits which we have with your Agency. This change will apply to those. If you note that I have missed some or if you have any questions, please do not hesitate to give me a call at (406) 259-7860, extension 240 to discuss this.

This change affects only our company name. The physical locations of our offices and the personnel remain the same.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Bobbie Schuman
Regulatory and
Environmental Specialist

/hs

Enclosures

UTAH UIC PERMITS

Balcron Oil Monument Butte Jonah Unit Waterflood (new name)	
Formerly Monument Butte Area-A Waterflood Approved 12/22/92	
Area Permit No. UT2642-00000	
Allen Federal #22-6	UT2642-03729 (AREA PERMIT UT2642-00000)
Allen Federal #13-6	UT2642-03730 (AREA PERMIT UT2642-00000)
Allen Federal #31-6	UT2642-03731 (AREA PERMIT UT2642-00000) (State #UIC-142)
Allen Federal #1-6	UT2642-03732 (AREA PERMIT UT2642-00000)
Allen Federal #1A-5	UT2642-03733 (AREA PERMIT UT2642-00000)
	NOTE: Never converted to UIC - put back on production
Balcron Monument Fed. #11-6	UT2642-03734 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #24-6	UT2642-03735 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #33-6	UT2642-03736 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #42-6	UT2642-03737 (AREA PERMIT UT2642-00000)
Balcron Monument Fed. #13-5J	UT2642-04208 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #22-5J	UT2642-04209 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #24-5	UT2642-04210 (AREA PERMIT UT2642-00000) (State #UIC-149)
Balcron Monument Fed. #31-7J	UT2642-04211 (AREA PERMIT UT2642-00000) (State #UIC-149)
Monument Butte #1-33	State #UIC-151
Monument Butte #1-24	State #UIC-151
Monument Butte #1-13	State #UIC-151
Balcron Monument Fed. #42-1J	State #UIC-151
Getty #12-1	State #UIC-151
Balcron Monument Fed. #41-15	State #UIC-152
Balcron Monument Fed. #32-15	State #UIC-152
Balcron Monument Fed. #23-15	State #UIC-152
Balcron Monument Fed. #41-14J	State #UIC-152
Balcron Monument Fed. #21-14J	State #UIC-152
Balcron Monument Fed. #32-12J	State #UIC-152
C & O Gov't #4	State #UIC-152
Balcron Monument Fed. #14-12J	State #UIC-152
Balcron Monument Fed. #12-12J	State #UIC-152
Balcron Monument Fed. #43-11J	State #UIC-152
Balcron Monument Fed. #32-11	State #UIC-152



**EQUITABLE RESOURCES
ENERGY COMPANY**

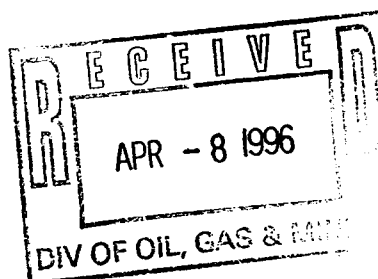
BALCRON OIL DIVISION

1601 Lewis Avenue
Billings, MT 59102

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

March 22, 1996

Utah Division of Oil, Gas and Mining
355 West North Temple
Salt Lake City, UT 84180



Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Bobbie Schuman
Bobbie Schuman
Regulatory and
Environmental Specialist

/hs

Enclosures

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

2. Name of Operator:
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number:
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well
Footages: See attached listing

QQ, Sec., T., R., M.:

5. Lease Designation and Serial Number:
See attached listing

6. If Indian, Allottee or Tribe Name:
n/a

7. Unit Agreement Name:
See attached listing

8. Well Name and Number:
See attached listing

9. API Well Number:
See attached listing

10. Field and Pool, or Wildcat:
See attached listing

County: See attached list

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Operator name change</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

13.

Name & Signature:

Bobbie Schuman
Bobbie Schuman

Regulatory and
Title: Environmental Specialist Date: March 27, 1996

(This space for State use only)

UTAH - ALL

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31392	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNL, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WIW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

OO, Sec., T., R., M.:

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

County:

State:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- ☐ Abandon ☐ New Construction
☐ Repair Casing ☐ Pull or Alter Casing
☐ Change of Plans ☐ Recomplete
☐ Convert to Injection ☐ Reperforate
☐ Fracture Treat or Acidize ☐ Vent or Flare
☐ Multiple Completion ☐ Water Shut-Off
☒ Other Change of Operator

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon ☐ New Construction
☐ Repair Casing ☐ Pull or Alter Casing
☐ Change of Plans ☐ Reperforate
☐ Convert to Injection ☐ Vent or Flare
☐ Fracture Treat or Acidize ☐ Water Shut-Off
☒ Other Change of Operator

Date of work completion 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

Equitable Resources Energy Company
 1601 Lewis Avenue
 Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 1 1997

13.

Name & Signature: Chris A. Potter

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date: 9/30/97

(This space for State use only)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	LEP 7-SJ
2	D7858-FILE
3	VLD (GIL)
4	RJE
5	IEC
6	FTM

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ~~XXX Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	<u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	<u>phone (406) 259-7860</u>	<u>BILLINGS MT 59102-4126</u>
	<u>account no. N9890</u>	<u>phone (406) 259-7860</u>
		<u>account no. N9890</u>

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>013-31370</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-4-96 & 4-8-96)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- * 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ (4-10-96)
- See 6. Cardex file has been updated for each well listed above. (4-11-96)
- See 7. Well file labels have been updated for each well listed above. (4-11-96)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

5578314 (\$80,000) Schwa Ins. Co. (Bond Rider In Progress)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 4/22/96 2. Copies of documents have been sent to State Lands for changes involving State leases.
Sent to Ed Bonner - Trust Lands

FILMING

- VDR 1. All attachments to this form have been microfilmed. Date: May 20 1996.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

9/6/04/10 Blm/BIA "Formal approval not necessary"

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
CROSS CREEK	43-037-20117	NAVAJO A #1	41S	26E	5	INJD	Y
CROSS CREEK	43-037-20164	NAVAJO A #3	41S	26E	5	INJI	Y
ENSERCH EXPL	43-013-31240	FEDERAL 43-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31269	FEDERAL 34-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31229	FEDERAL 14-3	08S	16E	33	INJW	N
ENSERCH EXPL	43-013-31225	FEDERAL 14-3	08S	16E	34	INJW	N
ENSERCH EXPL	43-013-31272	FEDERAL 21-4	09S	16E	4	INJW	N
ENSERCH EXPL	43-013-30670	FEDERAL 32-5	09S	16E	5	INJW	N
ENSERCH EXPL	43-013-31205	FEDERAL 41-5	09S	16E	5	INJW	N
ENSERCH EXPL	43-047-32248	1-26B	09S	19E	26	INJG	N
ENSERCH EXPL	43-013-30913	44-5H	09S	17E	5	INJW	N
ENSERCH EXPL	43-013-30678	42-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-31457	22-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-30679	31-8H	09S	17E	8	INJW	N
ENSERCH EXPL	43-013-31049	22-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30682	24-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30887	11-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-31108	33-9H	09S	17E	9	INJW	N
ENSERCH EXPL	43-013-30656	13-9H	09S	17E	9	INJW	N
EQUITABLE RE	43-013-31362	FEDERAL 11-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31361	FEDERAL 33-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31363	FEDERAL 24-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-31364	FEDERAL 42-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-30919	FEDERAL 22-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-15779	FEDERAL 1-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-013-30918	FEDERAL 13-6	09S	17E	6	INJW	Y
EQUITABLE RE	43-047-15681	PARIETTE BEN	09S	19E	7	INJD	Y
EQUITABLE RE	43-013-31404	42-1J	09S	16E	1	INJW	Y
EQUITABLE RE	43-013-31415	44-1J	09S	16E	1	INJW	Y
EQUITABLE RE	43-013-30702	FEDERAL 1-13	09S	16E	1	INJW	N
EQUITABLE RE	43-013-30735	FEDERAL 1-33	09S	16E	1	INJW	N
EQUITABLE RE	43-013-30701	1-24	09S	16E	1	INJW	N
EQUITABLE RE	43-013-31384	22-5	09S	16E	5	INJW 17E	Y
EQUITABLE RE	43-013-31416	34-10J	09S	16E	10	INJW	N
EQUITABLE RE	43-013-31002	43-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31369	23-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31417	12-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31386	32-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31003	FEDERAL 34-1	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31374	14-11J	09S	16E	11	INJW	N
EQUITABLE RE	43-013-31410	12-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31411	14-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-30742	GOVT C&O #4	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31419	32-12J	09S	16E	12	INJW	N
EQUITABLE RE	43-013-31408	41-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31421	21-14J	09S	16E	14	INJW	N
EQUITABLE RE	43-013-31367	41-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31373	23-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31368	32-15J	09S	16E	15	INJW	N
EQUITABLE RE	43-013-31375	24-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31370	FEDERAL 13-5	09S	17E	5	INJW	Y
EQUITABLE RE	43-013-31195	ALLEN FEDERA	09S	17E	6	INJW	N
EQUITABLE RE	43-013-31405	31-7J	09S	17E	7	INJW	Y
EQUITABLE	43-013-31492	11-7J	9S	17E	7	INJW	N

RECEIVED

OCT 10 1997

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

RECEIVED

OCT 13 1997

Well name and number: See Attached ****JONAH (GREEN RIVER) UNIT**

Field or Unit name: See Attached API no. See Attached

Well location: QQ See Attached section See Attached township See Attached range See Attached county See Attached

Effective Date of Transfer: September 30, 1997

CURRENT OPERATOR

Transfer approved by:

Name David M. McCoskery Company Equitable Resources Energy Co.

Signature [Signature] Address 1601 Lewis Avenue

Title Director of Operations & Engineering Billings, MT 59102

Date 9-30-97 Phone (406) 259-7860

Comments:

NEW OPERATOR

Transfer approved by:

Name Chris A. Potter Company Inland Production Company

Signature [Signature] Address 475 - 17th Street, Suite 1500

Title CHRIS A. POTTER, ATTORNEY-IN-FACT Denver, CO 80202

Date 9-30-97 Phone (303) 292-0900

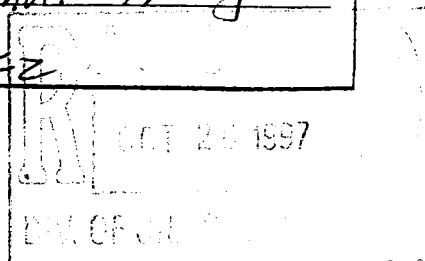
Comments:

(State use only)

Transfer approved by [Signature] Title Environ. Manager

Approval Date 1-20-98

CAUSE # 228-2



Injection wells

Injection Wells for Inland Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGREEMENT NO.
✓ AMERADA GUINAND #1	SWNW 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20245-00	UTU016271V	UTU72085A
✓ COYOTE BASIN #42-6X	SENE 6 8S 25E	UINTA	UT	COYOTE BASIN	43-047-32346-00	UTU017439B	UTU72085A
✓ EAST RED WASH FED. #4-6	SWSE 6 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20261-00	UTU020309D	UTU72085A
✓ EAST RED WASH #2-5	NWNW 5 8S 25E	UINTA	UT	COYOTE BASIN	43-047-20252-00	UTU063597A	UTU72085A
✓ ALLEN FEDERAL #1	SESE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15779-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #13-6	NWSW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30918-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #22-6	SENW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30919-00	UTU020252A	UTU72086A
✓ ALLEN FEDERAL #31-6	LOT2 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31195-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #11-6	NWNW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31362-00	UTU020252A	UTU72086A
✓ MONUMENT FEDERAL #11-7J	NW NW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31492-00	UTU44426	UTU72086A
✓ MONUMENT BUTTE #13-5	NWSW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31370-00		UTU72086A
✓ MONUMENT BUTTE #22-5	SENW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31384-00	UTU020252	UTU72086A
✓ MONUMENT BUTTE #24-5	SESW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31375-00	UTU020252	UTU72086A
✓ MONUMENT BUTTE FED. #24-6	SESW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31363-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE #31-7	NWNW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31405-00	UTU72106	UTU72086A
✓ MONUMENT BUTTE FED. #33-6	NWSE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31361-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #42-6	SENE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31364-00	UTU020252A	UTU72086A
✓ MONUMENT BUTTE FED. #12-11	SWNW 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31417-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #14-11	SWSW 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31374-00	UTU096547	UTU72086A
✓ MONUMENT BUTTE #12-12	SWNW 12 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31410-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE #14-12	SWSW 12 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31411-00		UTU72086A
✓ MONUMENT BUTTE #21-14	NENW 14 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31421-00		UTU72086A
✓ MONUMENT BUTTE #23-11	NESW 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31369-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #23-15	NESW 15 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31373-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE #32-11	SWNE 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31386-00		UTU72086A
✓ MONUMENT BUTTE #32-12	SWNE 12 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31419-00		UTU72086A
✓ MONUMENT BUTTE #41-14	NENE 14 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31408-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE #43-11	NESE 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31002-00	UTU096550	UTU72086A
✓ MONUMENT BUTTE FED. #32-15	SWNE 15 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31368-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #34-10	SWSE 10 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31416-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #41-15	NENE 15 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31367-00	UTU017985	UTU72086A
✓ MONUMENT BUTTE FED. #42-1	SENE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31404-00	UTU40652	UTU72086A
✓ MONUMENT BUTTE FED. #44-1J	SESE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31415-00	UTU44426	UTU72086A
✓ C&O GOVT #4	NESW 12 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30742-00	UTU035521A	UTU72086A
✓ MONUMENT BUTTE FED. #1-13	NWSW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30702-00	UTU18399	UTU72086A
✓ MONUMENT BUTTE FED. #1-33	NWSE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30735-00	UTU52013	UTU72086A
✓ MONUMENT BUTTE #1-24	SESW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30701-00	UTU18399	UTU72086A
✓ WALTON FEDERAL #34-11	SWSE 11 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31003-00	UTU096550	UTU72086A
✓ MONUMENT STATE #11-2-9-17CD	NW NW 2 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-42685	ML 45555	

11422

11426

11438
11431



EQUITABLE RESOURCES ENERGY COMPANY

WESTERN REGION

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

Lisha
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad
Agent for Equitable Resources
Energy Company

/mc



Crazy Mountain Oil & Gas Services
P.O. Box 577
Laurel, MT 59044
(406) 628-4164
(406) 628-4165

TO: Lisha
St of Utah.

FROM. Molly Conrad
Crazy Mountain Oil & Gas Services
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE: Here is the letter you requested.
Calling you need anything
further.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

14 1998

IN REPLY REFER TO
UT-931

January 13, 1998

Inland Production Company
475 17th Street, Suite 1500
Denver, Colorado 80202

Re: Jonah (Green River) Unit
Duchesne County, Utah

Gentlemen:

On January 13, 1998, we received an indenture dated November 17, 1997, whereby Equitable Resources Energy Company resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Jonah (Green River) Unit, Duchesne County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 13, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Jonah (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Jonah (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Minerals Adjudication Group U-932
File - Jonah (Green River) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-931:TAThompson:tt:1/13/98

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM UTU72086A JONAH (GR) SECONDARY RECOVERY UNIT									
UTU72086A	430131511100S1	1	NWSW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578000S1	1	NWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131577900S1	1	SESE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578900S1	1	SESW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430131579200S1	1	SESE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133070200S1	1-13	NWSW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070300S1	1-14	SWSW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133064600S1	1-23	NESW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070100S1	1-24	SESW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133073500S1	1-33	NWSE	1	9S	16E	WIW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073600S1	1-34	SWSE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073400S1	1-43	NESE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133136200S1	11-6	L4	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149200S1	11-7J	NWNW	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133088900S1	12-1	NWNE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133141700S1	12-11J	SWNW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133141000S1	12-12J	SWNW	12	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133061100S1	12-5	SWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058200S1	12-6	SWNW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149300S1	12-7J	SWNW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430131579000S1	13-11J	NWSW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133137000S1	13-5	NWSW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091800S1	13-6	NWSW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133137400S1	14-11	SWSW	11	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133141100S1	14-12J	SWSW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133138500S1	14-5	SWSW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131511200S1	2	NWSE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430131579300S1	2	NWNE	14	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133060300S1	2-1	L1	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133140600X1	21-12J	NENW	12	9S	16E	ADD	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133142100S1	21-14J	NENW	14	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133142200X1	21-15J	NENW	15	9S	16E	ADD	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133061200S1	21-5	NENW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058400S1	21-6	L3	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579600S2	22-12J	SENW	12	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133063400S1	22-15	SENW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138400S1	22-5	SENW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091900S1	22-6	SENW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133136900S1	23-11	NESW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133137300S1	23-15	NESW	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138300S1	23-5	NESW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133055800S1	23-6	NESW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133140900S1	24-12J	SESW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133063100S1	24-15	SESW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133137500S1	24-5	SESW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133136300S1	24-6	SESW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579100S1	3	NWNW	14	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133061300S1	31-15	NWNE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG

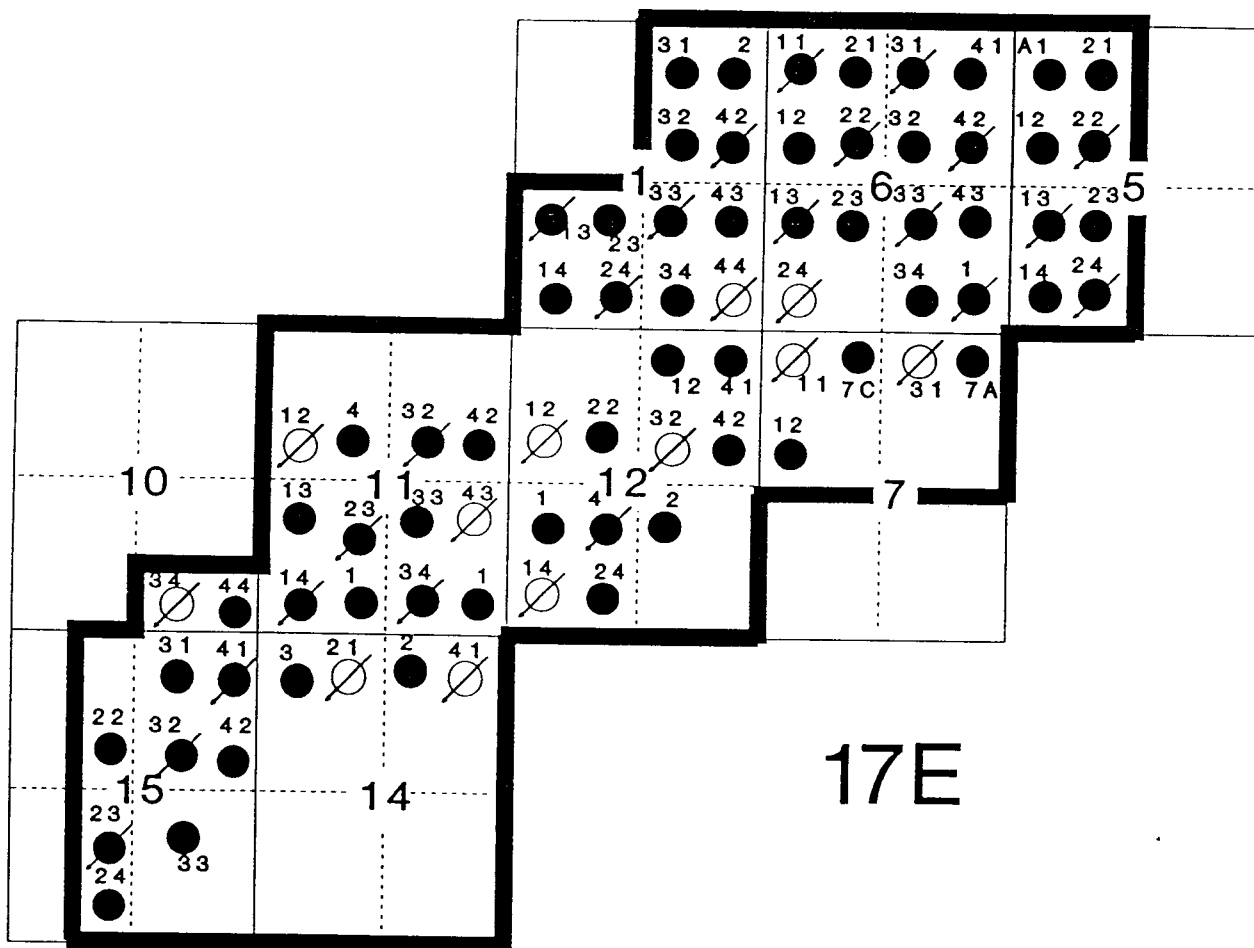
WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
UTU72086A	430133141300S1	31-1J	L2	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133119500S1	31-6	L2	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133140500S1	31-7J	NWNE	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133138600S1	32-11	SWNE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133141900S1	32-12J	SWNE	12	9S	16E	WIW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430133136800S1	32-15	SWNE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133141400S1	32-1J	SWNE	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133055900S1	32-6	SWNE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133145100S1	33-11J	NWSE	11	9S	16E	OSI	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133063200S1	33-15	NWSE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133136100S1	33-6	NWSE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133141600S1	34-10J	SWSE	10	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133100300S1	34-11	SWSE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133058600S1	34-6	SWSE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133074200S1	4	NESW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579500S1	4	SENE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133148700S1	41-12J	NENE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133140800S1	41-14J	NENE	14	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133136700S1	41-15	NENE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133058100S1	41-6	NENE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133006600S1	42-11J	SENE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133148600S1	42-12J	SENE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430133063300S1	42-15	SENE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133140400S1	42-1J	SENE	1	9S	16E	WIW	UTU40652	EQUITABLE RESOURCES ENERG
UTU72086A	430133136400S1	42-6	SENE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133100200S1	43-11J	NESE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133058300S1	43-6	NESE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133063000S1	44-10	SESE	10	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133141500S1	44-1J	SESE	1	9S	16E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133092600S1	7-A	NENE	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133096100S1	7-C	NENW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG

JONAH (GREEN RIVER) UNIT

DUCHESNE COUNTY, UTAH

EFFECTIVE: JULY 1, 1993



16E

17E

9S

— UNIT OUTLINE (UTU72086A)

4,221.61 ACRES

SECONDARY
ALLOCATION
FEDERAL 100.00%

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1- <u>DEC</u>	6- <u>DEC</u>
2- <u>CH</u>	7-KAS
3-DTS	8-SI
4-VLD	9-FILE
5-JRE	

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-30-97

TO: (new operator)	<u>INLAND PRODUCTION COMPANY</u>	FROM: (old operator)	<u>EQUITABLE RESOURCES ENERGY</u>
(address)	<u>PO BOX 1446</u>	(address)	<u>PO BOX 577</u>
	<u>ROOSEVELT UT 84066</u>		<u>LAUREL MT 59044</u>
			<u>C/O CRAZY MTN O&G SVS</u>
Phone:	<u>(801) 722-5103</u>	Phone:	<u>(406) 628-4164</u>
Account no.	<u>N5160</u>	Account no.	<u>N9890</u>

WELL(S) attach additional page if needed:

***JONAH (GREEN RIVER) UNIT**

Name: **SEE ATTACHED**	API: <u>43-013-31370</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 12-10-97)
- lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 10-13-97)
- N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state**? (yes/no) _____ If yes, show company file number: _____
- lec 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- lec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (1-14-98) * UIC/Que Hro Pro 1-14-98 & UIC/DBase 1-14-98.
- lec 6. **Cardex** file has been updated for each well listed above.
- lec 7. Well **file labels** have been updated for each well listed above.
- lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (1-14-98)
- lec 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- J/c 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
Entity 11492 "Jonah (GP) Unit"
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A/J/c 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
2. A **copy of this form** has been placed in the new and former operator's bond files.
3. The **FORMER** operator has requested a release of liability from their bond (yes/no) , as of today's date . If yes, division response was made to this request by letter dated .

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A/J/c 1. Copies of documents have been sent on to at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 19 , of their responsibility to notify all interest owners of this change.

FILMING

- J/c 1. All attachments to this form have been **microfilmed**. Today's date: 2-3-98.

FILING

1. **Copies** of all attachments to this form have been filed in each **well file**.
2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

980114 BLM/SY Aprv. eff. 1-13-98.



PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

April 19, 2000

Division Oil and Gas & Mining
Attn: Mr. Brad Hill
1594 West North Temple – Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Monument Federal 13-5-9-17
API # 43-013-31370, U-020252

Dear Mr. Brad Hill

Please find enclosed the results of a MIT test conducted today on the above referenced well. On 4-19-00 there was 1070 psi put on casing with 1835 psi on tubing there was no loss of pressure charted in a ½ hour test. The pressure was then released. This was a 5 year scheduled test.

If you have any questions or need further information, please don't hesitate to contact me. I can be reached at our Pleasant Valley Office at (435) 646-3721 or on my cellular at (435) 823-7977.

Sincerely,

Ron Shuck
Production Foreman

Enclosures

cc: State of Utah – Division of Oil, Gas & Mining
Jon Holst - Inland Resources
Roosevelt & Denver Well Files

/rs

RECEIVED

APR 24 2000

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
EQUITABLE RE	✓43-013-31410	12-12J	09S	16E	12	INJW	N
EQUITABLE RE	✓43-013-31408	41-14J	09S	16E	14	INJW	N
EQUITABLE RE	✓43-013-31421	21-14J	09S	16E	14	INJW	N
EQUITABLE RE	✓43-013-31373	23-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31368	32-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31367	41-15J	09S	16E	15	INJW	N
EQUITABLE RE	✓43-013-31370	FEDERAL 13-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31375	24-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31384	22-5	09S	17E	5	INJW	Y
EQUITABLE RE	✓43-013-31195	ALLEN FEDERA	09S	17E	6	INJW	N
EQUITABLE RE	✓43-013-31492	11-7J	09S	17E	7	INJW	Y
EQUITABLE RE	✓43-013-31405	31-7J	09S	17E	7	INJW	Y
EQUITABLE RE	43-047-20252	E. RED WASH	08S	25E	5	INJW	N
EQUITABLE RE	43-047-20261	ERW 4-6	08S	25E	6	INJW	Y
EQUITABLE RE	43-047-32346	42-6X	08S	25E	6	INJW	N
EQUITABLE RE	43-047-20245	AMERADA GUIN	08S	25E	7	INJW	Y
EQUITABLE RE	43-013-30666	44-7	09S	17E	7	INJW	Y
EQUITABLE RE	43-013-31382	13-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-31427	33-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-30675	24-8	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-30643	44-8-17B	09S	17E	8	INJW	Y
EQUITABLE RE	43-013-31580	13-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-30616	11-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-31145	22-16-9-17B	09S	17E	16	INJW	Y
EQUITABLE RE	43-013-30518	11-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-30499	POMCO 5	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-30516	11-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31428	31-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31581	33-17-9-17B	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31429	22-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-013-31467	42-17	09S	17E	17	INJW	Y
EQUITABLE RE	43-047-32610	22-2	09S	17E	2	INJW	Y
EQUITABLE RE	43-013-31425	14-2	09S	17E	2	INJW	Y
GIANT EXPLOR	43-037-15042	GOTHIC MESA	41S	23E	16	INJD	Y
GIANT EXPLOR	43-037-20292	SENTINEL PEA	41S	26E	27	INJD	Y
GIANT EXPLOR	43-037-16452	9-24	41S	23E	9	INJI	Y
HAY HOT OIL	43-037-30521	MCCRACKEN PT	40S	23E	19	INJI	N
INLAND PRODU	43-013-30843	MONUMENT BUT	08S	16E	34	INJW	Y
INLAND PRODU	43-013-31559	15-25	08S	16E	25	INJW	N
INLAND PRODU	43-013-30693	FEDERAL 3-33	08S	16E	33	INJW	N
INLAND PRODU	43-013-30808	FED 1-34	08S	16E	34	INJW	N
INLAND PRODU	43-013-30686	FEDERAL 5-35	08S	16E	35	INJW	N
INLAND PRODU	43-013-30606	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30745	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31514	1A-35	08S	16E	35	INJW	Y
INLAND PRODU	43-013-30605	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-31264	MONUMENT FED	08S	16E	35	INJW	N
INLAND PRODU	43-013-30608	MONUMENT BUT	08S	16E	35	INJW	N
INLAND PRODU	43-013-30624	STATE 5-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30592	STATE 1-36	08S	16E	36	INJW	N
INLAND PRODU	43-013-30787	12-32	08S	17E	32	INJW	Y
INLAND PRODU	43-013-30779	FED 15-28	08S	16E	28	INJW	N
INLAND PRODU	43-013-31372	14A-28	08S	16E	28	INJW	N

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NUMBER U-020252	
		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> injection WELL <input type="checkbox"/> WELL <input type="checkbox"/>		7. UNIT AGREEMENT NAME JONAH	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		8. FARM OR LEASE NAME MONUMENT FEDERAL 13-5	
3. ADDRESS OF OPERATOR Route 3 Box 3630, Myton Utah, 84052 (435) 646-3721		9. WELL NO. 13-5J-9-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW/SW 1980 FSL 0660 FWL		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/SW Section 5, T09S R17E	
14. API NUMBER 43-013-31370	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5224 GR	12. COUNTY OR PARISH DUCHESNE	13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>MIT on Casing</u>	<input checked="" type="checkbox"/>
(OTHER) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above referenced well had a MIT test done on the casing on 4-19-00. This was a 5 year annual test. The casing was pressured to 1070 psi with 1835 psi on tubing. No loss off pressure wash charted in 30 minutes. The pressure was then released.

18. I hereby certify that the foregoing is true and correct
SIGNED Ron Shuck TITLE Production Foreman DATE 4/19/00
Ron Shuck

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ COPY SENT TO OPERATOR _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Accepted by the
Utah Division of
Oil, Gas and Mining

* See Instructions On Reverse Side

Date: 5/19/00
By: [Signature]

RECEIVED

APR 24 2000

DIVISION OF
OIL, GAS AND MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: Nemo Date: 4/1/2000
Test conducted by: Red Shank
Others present: Matt Fillingham

Well Name: <u>Monument Federal 13-55</u>	Type: <u>(ER)</u> SWD	Status: <u>(AC)</u> TA UC
Field: <u>Tonah Unit</u>	UT 2642-04208	
Location: <u>NW 1/4</u> Sec: <u>5</u> T <u>9</u> N <u>S</u> R <u>17</u> <u>(E)</u> W	County: <u>Duchess</u> State: <u>UT</u>	
Operator: <u>Enlurel Production</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>2200</u> PSIG	

Is this a regularly scheduled test? ☒ Yes ☐ No

Initial test for permit? ☐ Yes ☒ No

Test after well rework? ☐ Yes ☒ No

Well injecting during test? ☒ Yes ☐ No

If Yes, rate: 30 bpd

RECEIVED

APR 24 2000

DIVISION OF
OIL, GAS AND MINING

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING		PRESSURE		
Initial Pressure		<u>1835</u> psig	psig	psig
End of test pressure		<u>1835</u> psig	psig	psig
CASING / TUBING		ANNULUS PRESSURE		
<u>3:48</u>	0 minutes	<u>1070</u> psig	psig	psig
	5 minutes	<u>1070</u> psig	psig	psig
	10 minutes	<u>1070</u> psig	psig	psig
	15 minutes	<u>1070</u> psig	psig	psig
	20 minutes	<u>1070</u> psig	psig	psig
	25 minutes	<u>1070</u> psig	psig	psig
<u>4:19</u>	30 minutes	<u>1070</u> psig	psig	psig
	minutes	psig	psig	psig
	minutes	psig	psig	psig
RESULT		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

5 year MIT on Casing

4'2" in tank

1.16 BPI

4'11/4" to Fill Analyst

4'11/2" In tank after Flow Back

RECEIVED

APR 24 2000

DIVISION OF
OIL, GAS AND MINING

Signature of Witness:

Ron Shuck

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____

Date: ____/____/____

Do you agree with the reported test results? ☐ YES ☐ NO

If not, why? _____

Possible violation identified? ☐ YES ☐ NO

If YES, what _____

If YES - followup initiated? ☐ YES

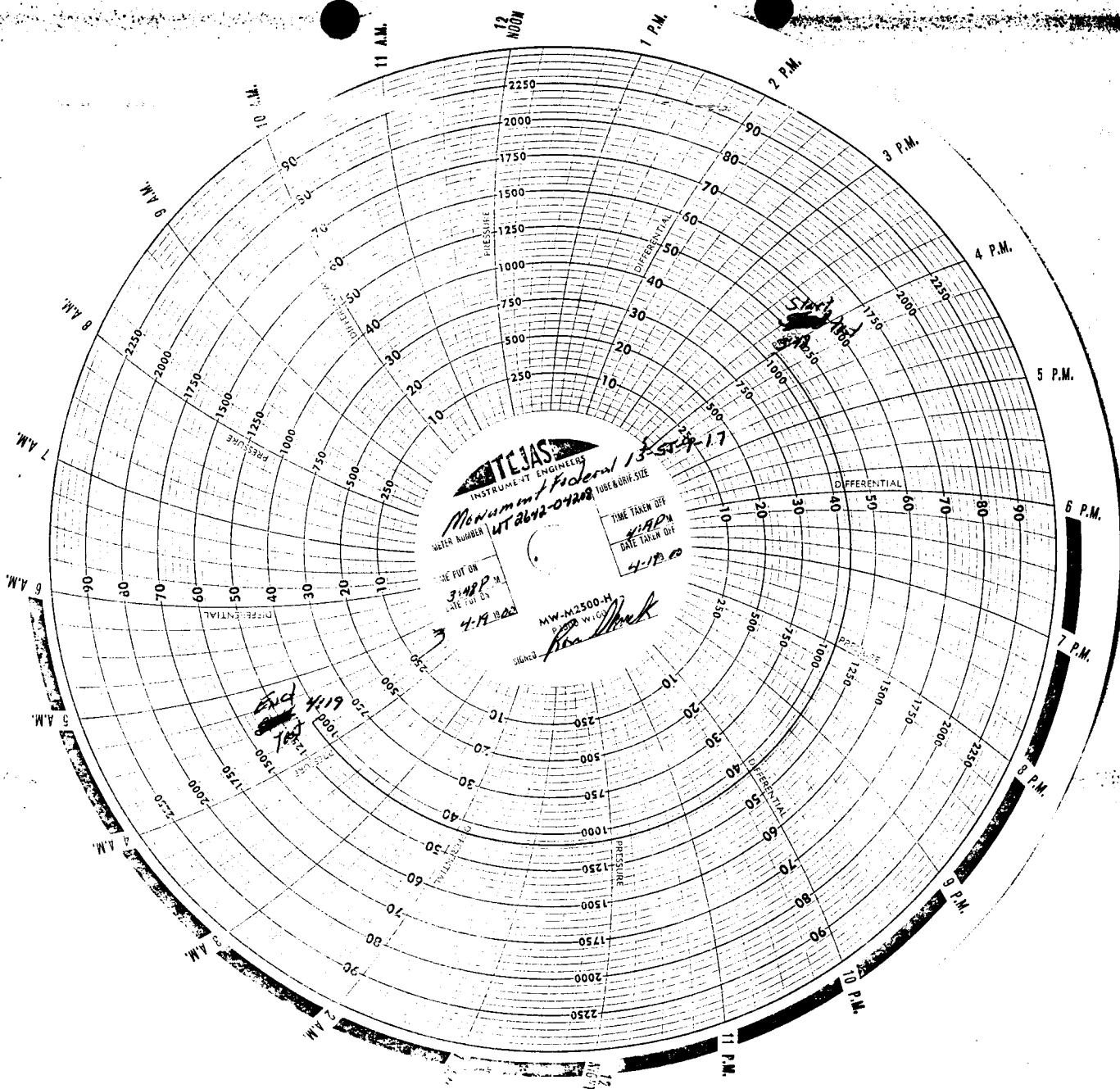
☐ NO - why not? _____

☐ Data Entry

☐ Compliance Staff

☐ 2nd Data Entry

☐ Hardcopy Filing



RECEIVED
APR 24 2000
DIVISION OF
OIL, GAS AND MINING



May 18, 2000

State of Utah
Division of Oil, Gas & Mining
Attn: Dan Jarvis
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Step-Rate Test
Monument Federal # 13-5J

Dear Dan:

Please find enclosed Step-Rate Tests (SRT) results on the Monument Federal #13-5J injection well in the Jonah Unit. Inland Production Company conducted the SRT on May 17, 2000. Due to the results of the SRT Inland is requesting a change in the Maximum Allowable Injection pressure from 2200 psi to 1828 psi for this well.

Thank you for your assistance. If you have any questions or need further information, please call me at (435) 646-3721.

Sincerely,

Brad Mecham
Operations Manager

/bm

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		U-020252	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
3. ADDRESS OF OPERATOR ROUTE #3 BOX 3630, MYTON, UTAH 84052 (435) 646-3721		7. UNIT AGREEMENT NAME JONAH	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW/SW 1980 FSL 0660 FWL		8. FARM OR LEASE NAME MONUMENT FEDERAL 13-5	
14. API NUMBER 43-013-31370		9. WELL NO. FEDERAL # 13-5	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5224 GR		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/SW Section 5, T09S R17E	
		12. COUNTY OR PARISH DUCHESENE	13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>Step-Rate Test</u>	<input checked="" type="checkbox"/>
(OTHER) _____	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On May 17, 2000 Inland Production Company conducted a Step-Rate Test (SRT) on the Monument Federal # 13-5 injection well in the Jonah Unit. Due to the results of the attached SRT Inland is requesting approval to change our Maximum Allowable Injection Pressure from 2200 psi to 1828 psi on this well.

COPY SENT TO OPERATOR
Date: 5/18/00
Initials: EHD

18 I hereby certify that the foregoing is true and correct
SIGNED B. MacLean TITLE Operations Manager DATE 5/18/00

(This space for Federal or State office use)

APPROVED BY _____ TITLE **Utah Division of Oil, Gas and Mining** DATE _____

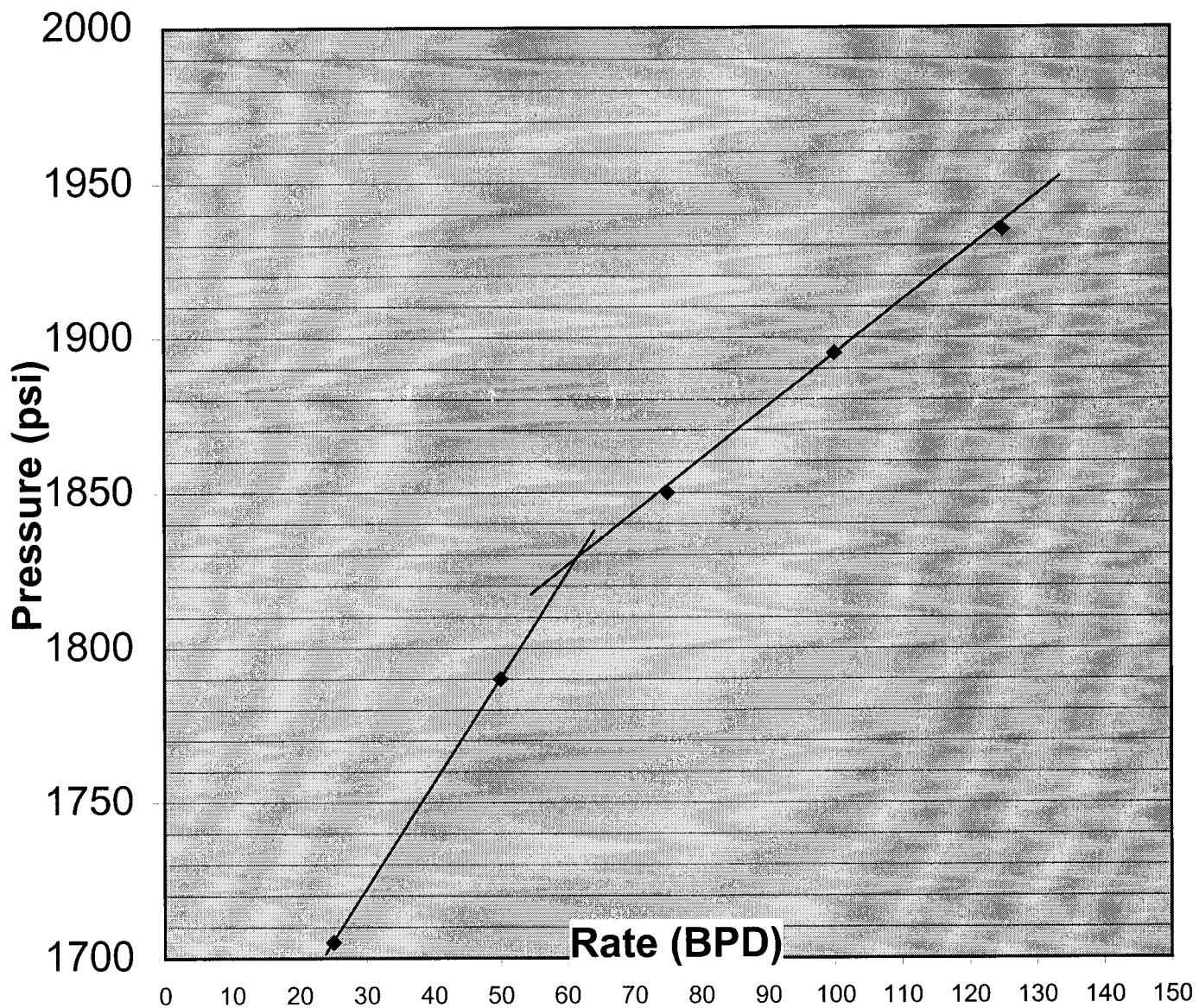
CONDITIONS OF APPROVAL, IF ANY:

Date: 5/22/00

E

* See Instructions On Reverse Side

MF 13-5J
(Jonah Unit)
Step Rate Test
May 17, 2000

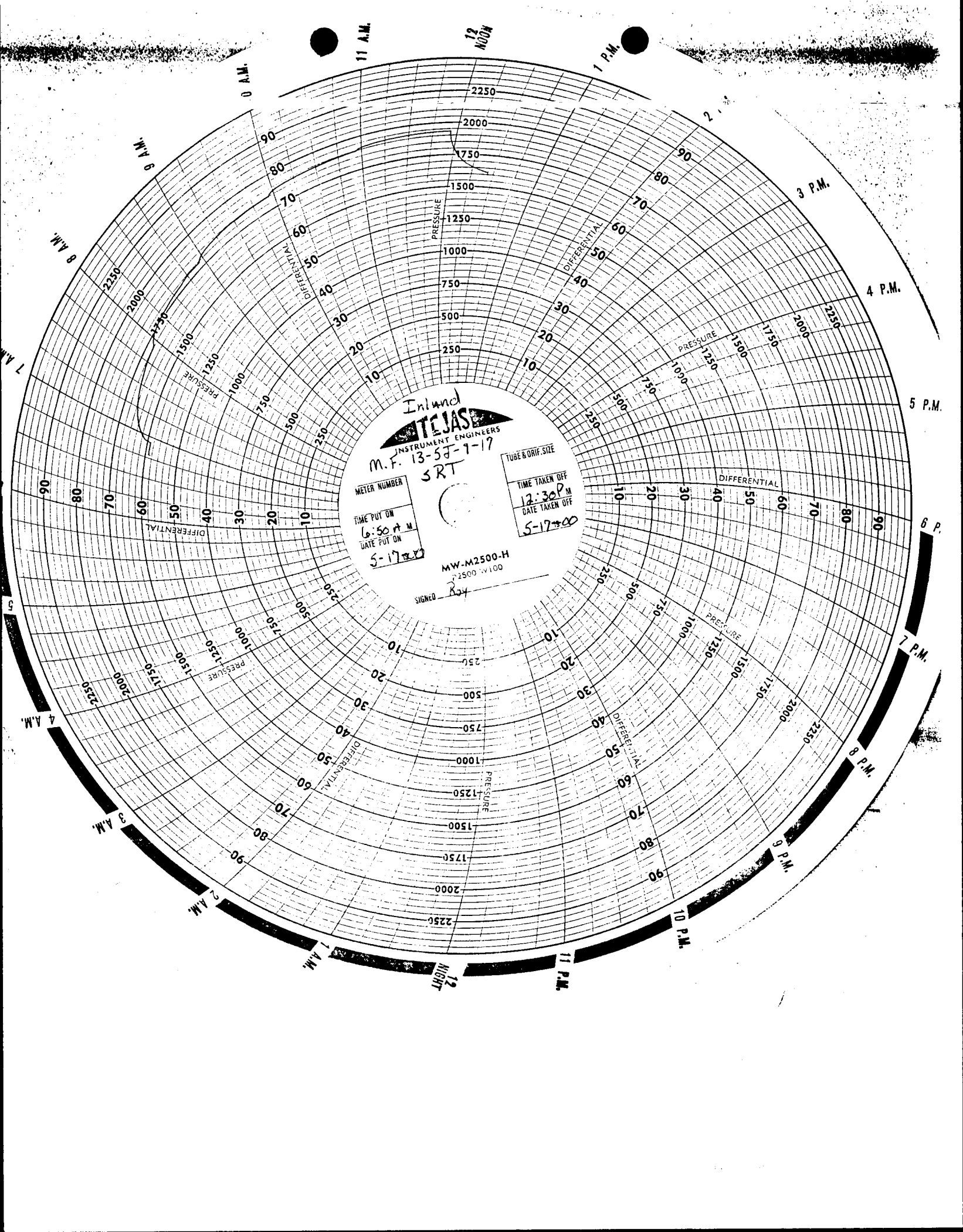


ISIP: 1900 psi

Fracture pressure: 1828 psi

FG: 0.829

Step	Rate(bpd)	Pressure(psi)
1	25	1705
2	50	1790
3	75	1850
4	100	1895
5	125	1935





Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas

SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov>



IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well Footage : County : QQ, Section, Township, Range:		Field or Unit Name See Attached List Lease Designation and Number
		State : UTAH

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: Inland Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: (303) 893-0102
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone:
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*Title: *Perk. Services Manager*Approval Date: *9-20-04*

Comments:

*Note: Indian Country wells will require EPA approval.*RECEIVED
SEP 20 2004

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change**Merger**

The operator of the well(s) listed below has changed, effective:

9/1/2004**FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

TO: (New Operator):

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

CA No.**Unit:****JONAH (GREEN RIVER)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MON FED 42-1J	01	090S	160E	4301331404	11492	Federal	WI	A
MON FED 43-11J	11	090S	160E	4301331002	11492	Federal	WI	A
WALTON FED 34-11	11	090S	160E	4301331003	11492	Federal	WI	A
MON FED 23-11J	11	090S	160E	4301331369	11492	Federal	WI	A
MON FED 14-11J	11	090S	160E	4301331374	11492	Federal	WI	A
MON FED 32-11J	11	090S	160E	4301331386	11492	Federal	WI	A
MON FED 41-15	15	090S	160E	4301331367	11492	Federal	WI	A
MON FED 32-15J	15	090S	160E	4301331368	11492	Federal	WI	A
MON FED 23-15	15	090S	160E	4301331373	11492	Federal	WI	A
MON FED 13-5	05	090S	170E	4301331370	11492	Federal	WI	A
MON FED 24-5	05	090S	170E	4301331375	11492	Federal	WI	A
MONUMENT FED 23-5J	05	090S	170E	4301331383	11492	Federal	OW	P
MON FED 22-5	05	090S	170E	4301331384	11492	Federal	WI	A
MONUMENT FED 14-5	05	090S	170E	4301331385	11492	Federal	OW	P
ALLEN FED 31-6	06	090S	170E	4301331195	11492	Federal	WI	A
MONUMENT 33-6	06	090S	170E	4301331361	11492	Federal	WI	A
MON FED 11-6	06	090S	170E	4301331362	11492	Federal	WI	A
MON FED 24-6	06	090S	170E	4301331363	11492	Federal	WI	A
MON FED 42-6	06	090S	170E	4301331364	11492	Federal	WI	A
GETTY 7C	07	090S	170E	4301330961	11492	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU020252

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
JONAH UNIT

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER ☐ Injection well

8. WELL NAME and NUMBER:

MON FED 13-5

2. NAME OF OPERATOR:
Newfield Production Company

9. API NUMBER:
4301331370

3. ADDRESS OF OPERATOR:
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER
435.646.3721

10. FIELD AND POOL, OR WILDCAT:
Monument Butte

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 1980 FSL 0660 FWL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NW/SW, 5, T9S, R17E

STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF ACTION

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of Work Completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/STOP)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLAIR

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: - 5 Year MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A 5 Year MIT was conducted on the subject well. On 3/18/05 Mr. Nathan Wiser was notified of the intent to conduct a MIT on the casing. On 3/25/05 the casing was pressured to 1175 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Krisha Russell

TITLE Production Clerk

SIGNATURE

Krisha Russell

DATE

(This space for State use only)

RECEIVED

MAR 30 2005

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 03 / 23 / 2005
Test conducted by: J.D. Harrocks
Others present: _____

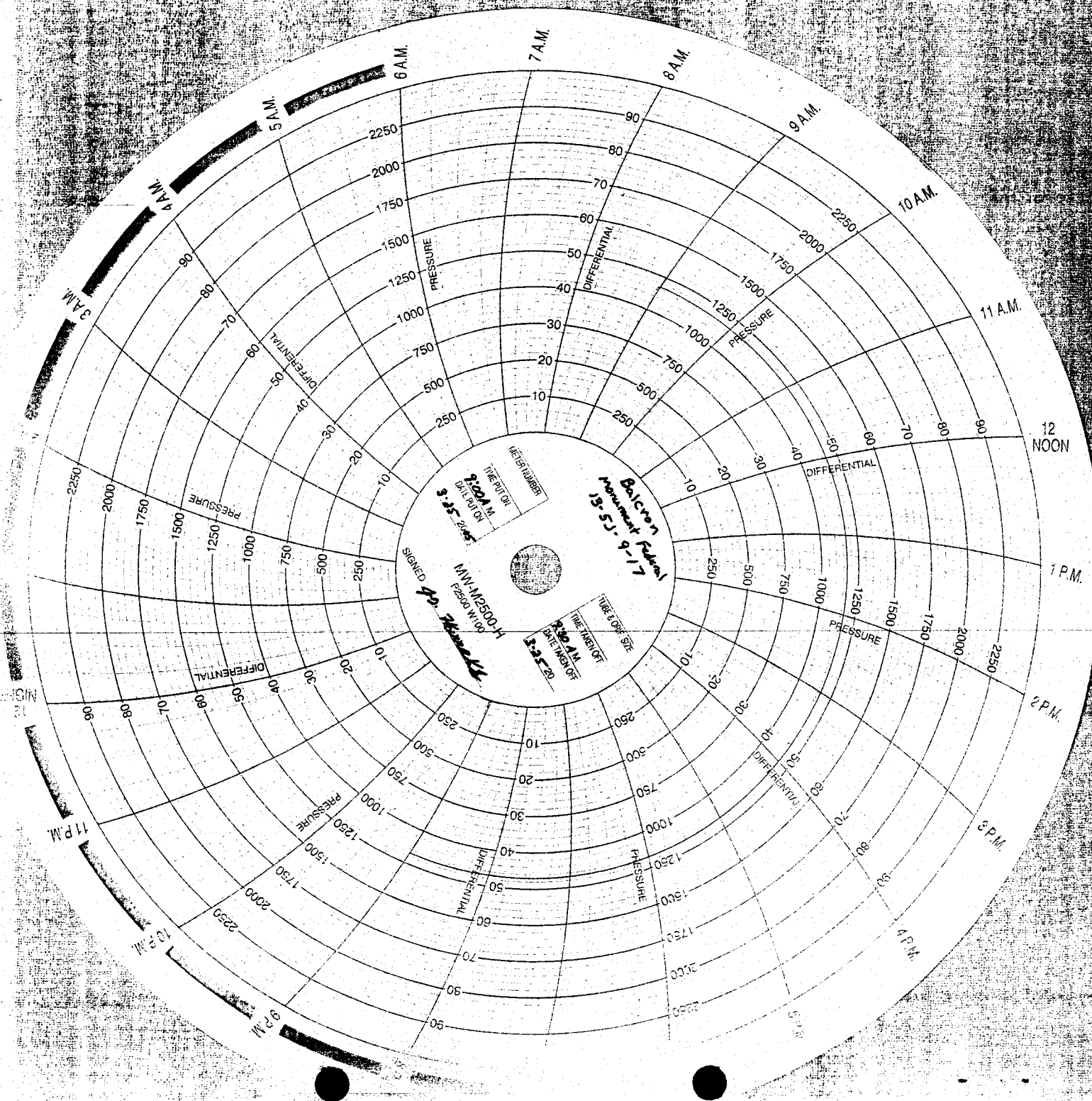
Well Name: <u>Balcon Monument Fed 1251-9/17</u> Type: ER SWD Status: AC TA UC			
Field: <u>Jonah</u>			
Location: <u>NW/SW</u>	Sec: <u>5</u>	T <u>9</u>	N/SE R <u>17</u> E/NE County: <u>Duchesne</u> State: <u>ut.</u>
Operator: <u>NewField</u>			
Last MIT: <u> </u> / <u> </u> / <u> </u>	Maximum Allowable Pressure: <u>1827</u>		PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No
 Initial test for permit? ☐ Yes ☒ No
 Test after well rework? ☐ Yes ☒ No
 Well injecting during test? ☒ Yes ☐ No If yes, rate: 35 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial pressure	<u>1800</u>	psig	psig	psig
End of test pressure	<u>1800</u>	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE				
0 minutes	<u>1175</u>	psig	psig	psig
5 minutes	<u>1175</u>	psig	psig	psig
10 minutes	<u>1175</u>	psig	psig	psig
15 minutes	<u>1175</u>	psig	psig	psig
20 minutes	<u>1175</u>	psig	psig	psig
25 minutes	<u>1175</u>	psig	psig	psig
30 minutes	<u>1175</u>	psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals

1. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ OTHER ☐ Injection well

2. NAME OF OPERATOR:

Newfield Production Company

3. ADDRESS OF OPERATOR:

Route 3 Box 3630

CITY Myton

STATE UT

ZIP 84052

PHONE NUMBER

435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1980 FSL 0660 FWL

COUNTY: Duchesne

QTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: NW/SW, 5, T9S, R17E

STATE: Utah

5. LEASE DESIGNATION AND SERIAL NUMBER:

UTU020252

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

JONAH UNIT

8. WELL NAME and NUMBER:

MON FED 13-5

9. API NUMBER:

4301331370

10. FIELD AND POOL, OR WILDCAT:

Monument Butte

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF ACTION SubDate

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of Work Completion:

07/21/2005

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/STOP)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLAIR

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: - Step Rate Test

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on July 12, 2005. Results from the test indicate that the fracture gradient is .859 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1965 psi.

RECEIVED

JUL 26 2005

DIV OF OIL, GAS & MINING

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Mike Guinn

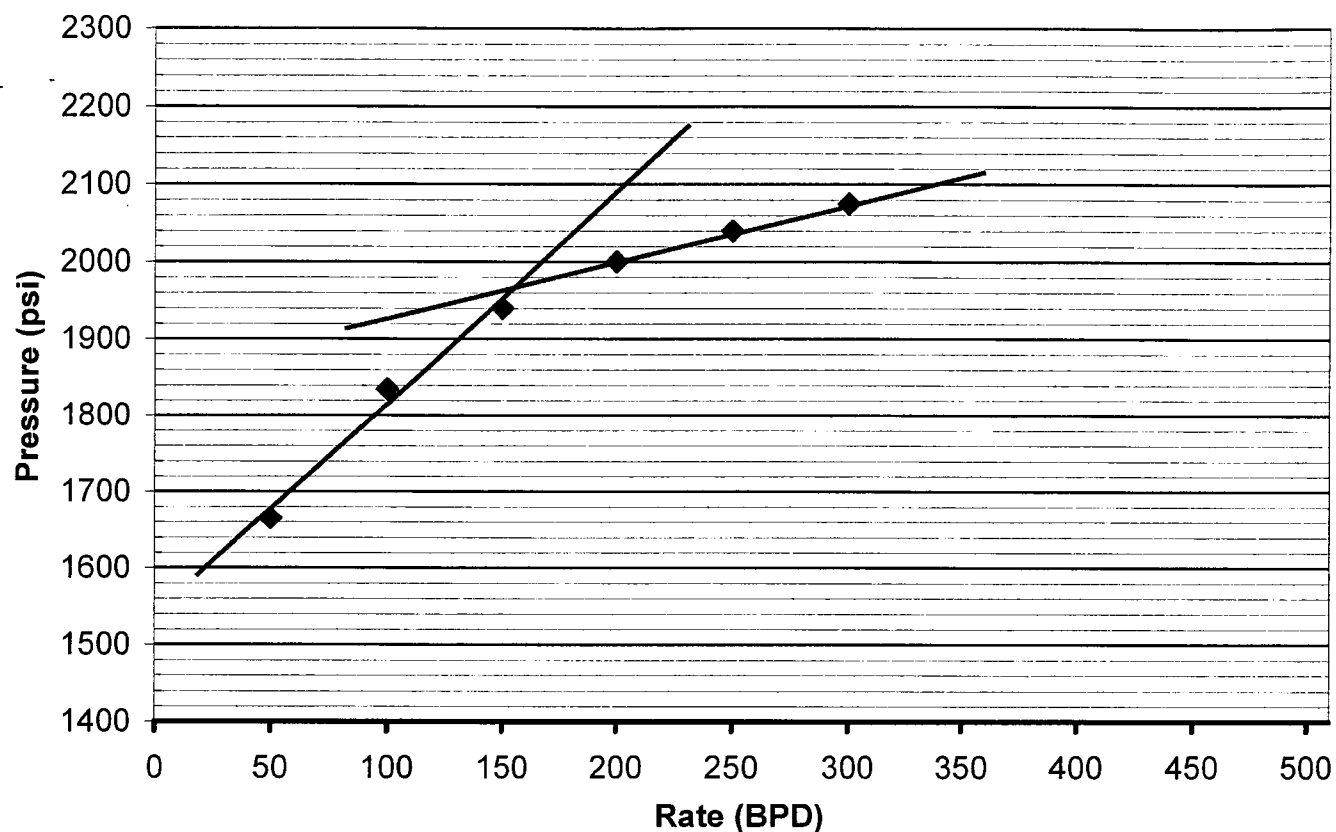
TITLE Engineer

SIGNATURE

DATE 07/21/2005

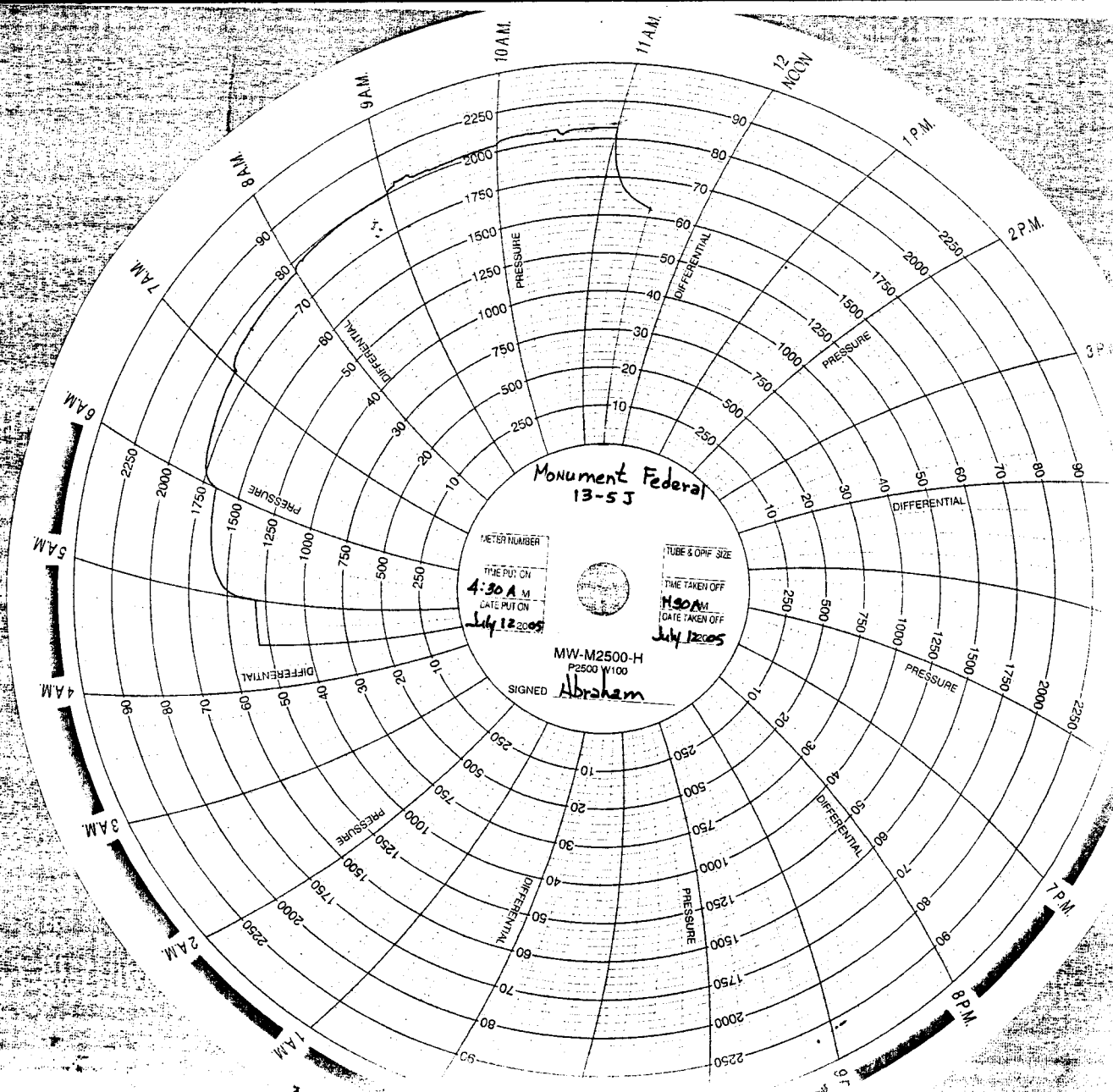
(This space for State use only)

**Monument Federal 13-5J
Jonah Unit
Step Rate Test
July 12, 2005**



Start Pressure: 1330 psi
Instantaneous Shut In Pressure (ISIP): 2050 psi
Top Perforation: 4638 feet
Fracture pressure (Pfp): 1965 psi
FG: 0.859 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	50	1665
2	100	1835
3	150	1940
4	200	2000
5	250	2040
6	300	2075



NEWFIELD



4301331370

June 11, 2007

Mr. Nathan Wiser, 8ENF-UFO
Environmental Protection Agency
Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

Re: Monument Federal 13-51-9-17
Loss of Mechanical Integrity
EPA#: UT20642-04208

Dear Nathan:

The subject injection well lost mechanical integrity on May 28, 2007 as noted by a Company representative during his normal rounds. Water injection was ceased and the wellhead was isolated the same day.

Newfield mobilized a rig and repaired a leak in the tubing on June 6, 2007. Enclosed is a copy of the mechanical integrity test (MIT) on the casing.

Newfield is requesting permission to commence injection upon approval of the MIT. You may contact me at 435-646-3721 if you require further information.

Sincerely,

Michael Guinn
District Manager

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: 6/12/07

Test conducted by: Trefley J. Rutter

Others present: _____

Well Name: <u>BAL. MON. Fed. 13-155-9-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>MONUMENT BUTTE</u>		
Location: <u>NU/NW</u> Sec: <u>5</u> T <u>9</u> N <u>(S)</u> R <u>17</u> E <u>(W)</u>	County: <u>Duchesne</u> State: <u>UT</u>	
Operator: <u>Newfield</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test?

☐ Yes ☒ No

Initial test for permit?

☐ Yes ☒ No

Test after well rework?

☒ Yes ☐ No

Well injecting during test?

☐ Yes ☒ No

If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1400</u> psig	psig	psig
End of test pressure	<u>1400</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1150</u> psig	psig	psig
5 minutes	<u>1150</u> psig	psig	psig
10 minutes	<u>1150</u> psig	psig	psig
15 minutes	<u>1150</u> psig	psig	psig
20 minutes	<u>1150</u> psig	psig	psig
25 minutes	<u>1150</u> psig	psig	psig
30 minutes	<u>1150</u> psig	psig	psig
_____ minutes	_____ psig	psig	psig
_____ minutes	_____ psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____

Spud Date: 8/10/93
Put on production: 9/24/93
Put on Injection: 10/24/94
GL: 5223' KB: 5236'

Balcron Monument Fed. #13-5J

Initial Production: 60 BOPD,
36 MCFD, 0 BWPD

Injection Diagram

SURFACE CASING

CSG SIZE: 8 5/8" / J-55 / 24 lbs.
LENGTH: 6 jts @ 246.10'
DEPTH LANDED: 256' KB
HOLE SIZE: 12 1/4"
CEMENT DATA: 150 sxs Class "G" Cement to Surface

PRODUCTION CASING

CSG SIZE: 5 1/2" / K-55 / 15.5 lbs.
LENGTH: 133 jts @ 5758.95'
DEPTH LANDED: 5751' KB
HOLE SIZE: 7 7/8"
CEMENT DATA: 166 sxs Hilift & 258 sxs Class "G"
CEMENT TOP AT: 2570' KB from CBL

INJECTION EQUIPMENT & SIZE

KB: 13.00
143 Jnt blue band 2 7/8" J-55 tbg 4572.32
2) 2 7/8" SN (2.25" ID) 4585.32 KB
5) 1/2" Arrow Set-1 Pkr (7.45) 4589.67 KB
End of Tubing 4593.87 KB

Injection Horizons

4638'-4649' (11') 6 shots RED1
4788'-4804' (15') 8 shots RED5
5106'-5110' (4') 2 SPF GREEN4
5510'-5516' (6') 2 SPF BLUE1

LOGS: Dual Laterolog, Micro-Spherically Focused
Log, Compensated Neutron, Gamma Ray

NEWFIELD

Balcron Monument Fed. #13-5J-9-17

1980 FSL & 660 FWL
NWSW Section 5-T9S-R17E
Duchesne Co, Utah
API #43-013-31370; Lease #U-020252A

FRAC JOB

4638'-4804', Frac w/Western on 9-10-93.
20,454 gals gelled water w/20,000 lbs
20-40 sand & 36,700 lbs 16-30 sand.
Avg 24.5 BPM @ 2700 psig, Max 32.8 BPM
@ 3040 psig. ISIP @ 2500 psig, 5 min
@ 1950 psig, 10 min @ 1880 psig,
15 min @ 1820 psig.

5510'-5516', Frac w/Western on 9-3-93.
10,290 gals Viking I #35 w/15,000 lbs
20-40 sand. Avg 19.8 BPM @ 1990 psig,
Max 20.2 BPM @ 2140 psig. ISIP @ 1750
psig, 5 min @ 1560 psig, 10 min @ 1430
psig, 15 min @ 1400 psig.

5106'-5110', Frac w/Western on 9-2-94.
7,266 gals gelled water w/15,100 lbs
16-30 mesh sand.
Avg 8.0 BPM @ 4700 psig, Max 17.0 BPM
@ 4900 psig. ISIP @ 3040 psig, 5 min
@ 1890 psig, 10 min @ 1560 psig,
15 min @ 1450 psig.

6-5-07 Tubing leak - update tubing detail
6-12-07 MIT

ACID JOB

4638'-4649', Halliburton, Initial break @ 3000
psig @ 2.4 BPM, start 1 ball per BOW. 1700
psig @ 2.5 BPM. No ball off, surge balls back.
Pump for rate 6.2 BPM @ 2500 psig.
4789'-4804', Initial break 2800 to 2500 psig
@ 4 BPM, Start 1 ball per BOW. Ball off, surge
balls back. Pump for rate 4.4 BPM @ 2500 psig.
5510'-5516', Western, initial break @ 3200
psig @ 0.5 BPM. Break back to 2600 psig, start
balls, 1 ball/bbl, pump 4 BOW, 4 balls. Press
climbed to 4000 psig, pumped total of 9 balls,
26 BOW, End press 4000 psig @ 0.2 STBWPM.
5510'-5516', Western, pump 500 gal HCL w/1
ball per bbl. Pump 12 bbls of acid. Try to
pump acid on formation, 4000 psig, would not
pump. (Re-Perforate 5510'-5516').
5510'-5516' Start 15% HCL acid, 500 gals, 1
ball per bbl, avg 4 BPM @ 2200 psig, max 6.4
BPM @ 4100 psig, ISIP @ 1500 psig.

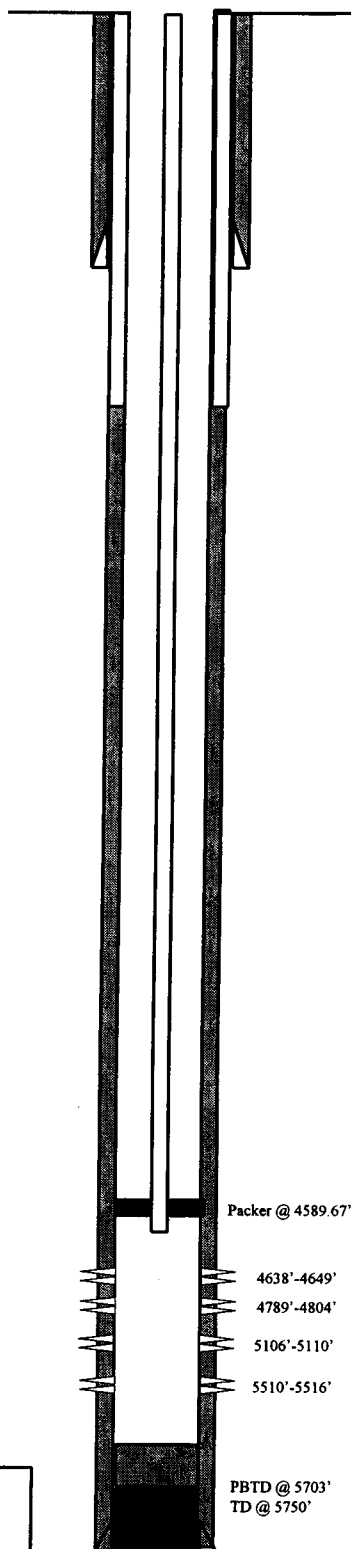
5106'-5110' Breakdown w/Western on 9-2-94.
3192 gals 2% KCl water w/25 ball sealers.
4 STBPM @ 3800 psig, ISIP @ 1990 psig.

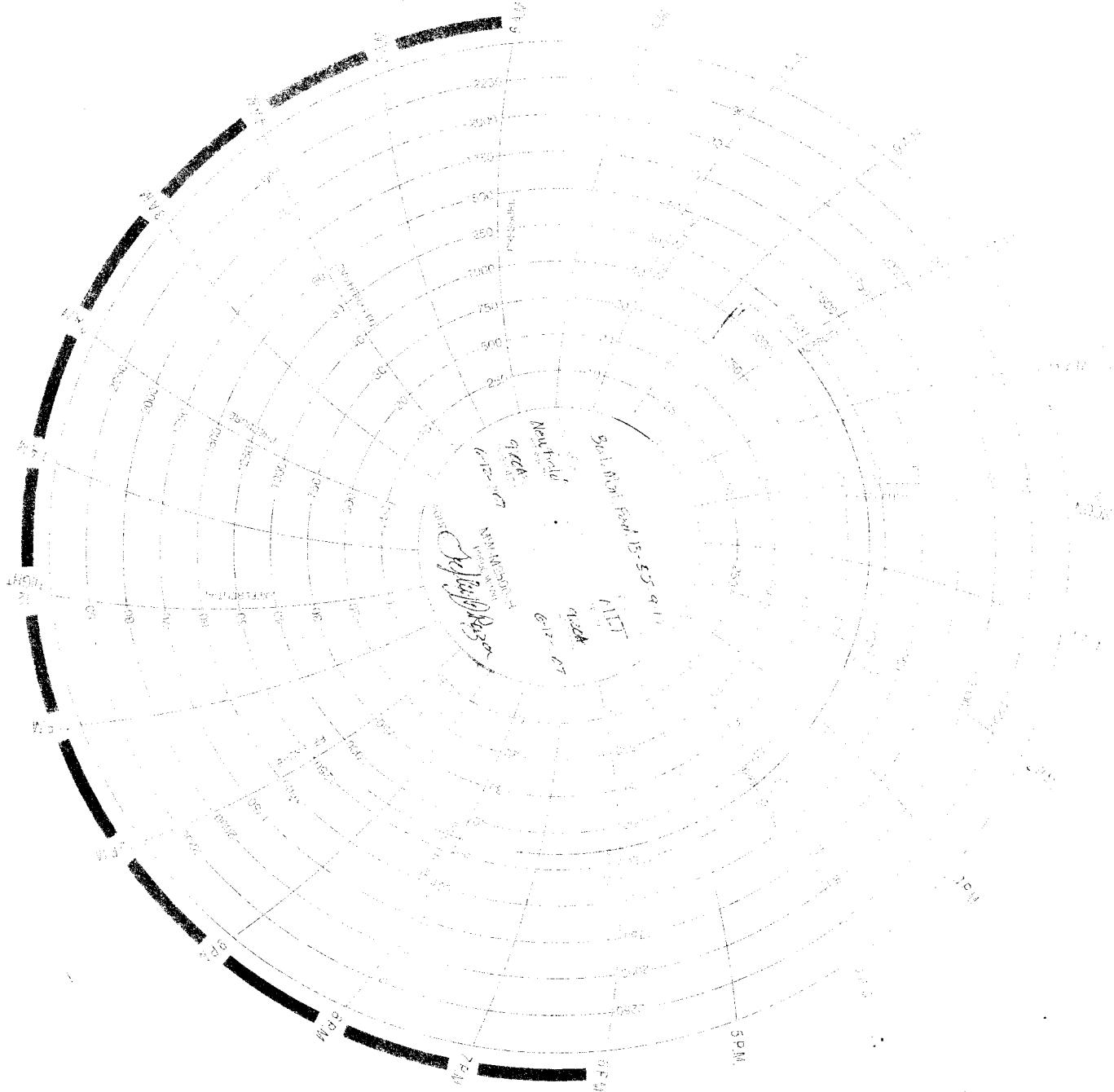
4638'-4649' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/52 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

4788'-4804' Breakdown w/Western on 9-2-94.
1700 gals 2% KCl water w/80 ball sealers.
6 STBPM @ 3800 psig, ISIP @ 2650 psig.

PERFORATION RECORD

9-2-93	5510'-5516'	2 SPF	12 holes
9-3-93	5510'-5516'	2 SPF	12 holes
9-8-93	4638'-4649'	2 SPF	6 holes
9-8-93	4789'-4804'	2 SPF	8 holes
9-2-94	5106'-5110'	4 SPF	16 holes
9-2-94	4638'-4649'	4 SPF	40 holes
9-2-94	4788'-4804'	4 SPF	64 holes





Daily Activity Report

Format For Sundry

MON 13-5-9-17

4/5/2007 To 8/5/2007

6/5/2007 Day: 1

Tubing Leak

Western #4 on 6/4/2007 - Bleed well down. MIRU Western #4. ND wellhead & release pkr @ 4578'. NU BOP. Found tbg ID to be thickly coated W/ scale (1/4" to 1/2" thick). LD tbg on trailers. Flushed oil f/ tbg as LD. MU re-dressed Weatherford 5 1/2" Arrowset 1-X pkr. Talley, drift, PU & TIH W/ used/inspected 2 7/8 8rd 6.5# blue band J-55 tbg. Broke each collar, inspected pins, apply Liquid O-ring & torque each connection. Ran 70 jts tbg. RU HO trk & flush tbg W/ 20 BW. Drop standing valve & pump to SN. Pressure test tbg to 3500 psi. PU 6' sub & SIFN W/ EOT @ 2261'.

6/6/2007 Day: 2

Tubing Leak

Western #4 on 6/5/2007 - Bleed well down. Con't to talley, drift, PU & TIH W/ used/inspected 2 7/8 8rd 6.5# blue band J-55 tbg. Broke each collar, inspected pins, apply Liquid O-ring & torque each connection. PU total of 143 jts. RU HO trk & pressure test tbg to 3000 psi. Held solid for 30 minutes. Retrieve standing valve W/ sandline. ND BOP & land tbg on flange. Mix 15 gals Baker Hughes CRW-132 & 5 gals X-Cide 370 in 70 bbls fresh wtr. RU HO trk & pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4585', CE @ 4590' & EOT @ 4594'. Land tbg W/ 16,000# tension. NU wellhead. Pressure test casing & pkr to 1400 psi. Held solid for 30 minutes. Leave pressure on well. RDMOSU. Well ready for MIT.

6/14/2007 Day: 3

Tubing Leak

Rigless on 6/13/2007 - On 5/29/07 Nathan Wiser with the EPA was contacted concerning the MIT on the above listed well (Fed 13-5j-9-17). Permission was given at that time to perform the test on 6/12/07. On 6/12/07 the csg was pressured up to 1150 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1400 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20642-04208 API# 43-013-31370

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
USA UTU-020252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
JONAH UNIT

8. Well Name and No.
MON FED 13-5

9. API Well No.
4301331370

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE, UT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL 660 FWL
NWSW Section 5 T9S R17E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Workover/MIT
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well had changes in the wellbore. See attached daily schedule.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JUN 15 2007

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and
correct (Printed/ Typed)

Kathy Chapman

Signature



Title

Office Manager

Date

06/14/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-020252
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		8. WELL NAME and NUMBER: MON FED 13-5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013313700000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/29/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: 5 YR MIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 05/21/2012 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 05/29/2012 the casing was pressured up to 1190 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tubing pressure was 1848 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20642-04208		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 04, 2012		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 5/30/2012	

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 5 / 29 / 12
Test conducted by: Cody Marx
Others present: _____

Well Name: <u>Monument Federal 13-5T-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NW/SW</u> Sec: <u>5</u> T <u>9</u> N <u>S</u> R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>Ut.</u>
Operator: <u>Cody M.</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: <u>1960</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No
Initial test for permit? ☐ Yes ☒ No
Test after well rework? ☐ Yes ☒ No
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 47 bpd

Pre-test casing/tubing annulus pressure: 1190 psig

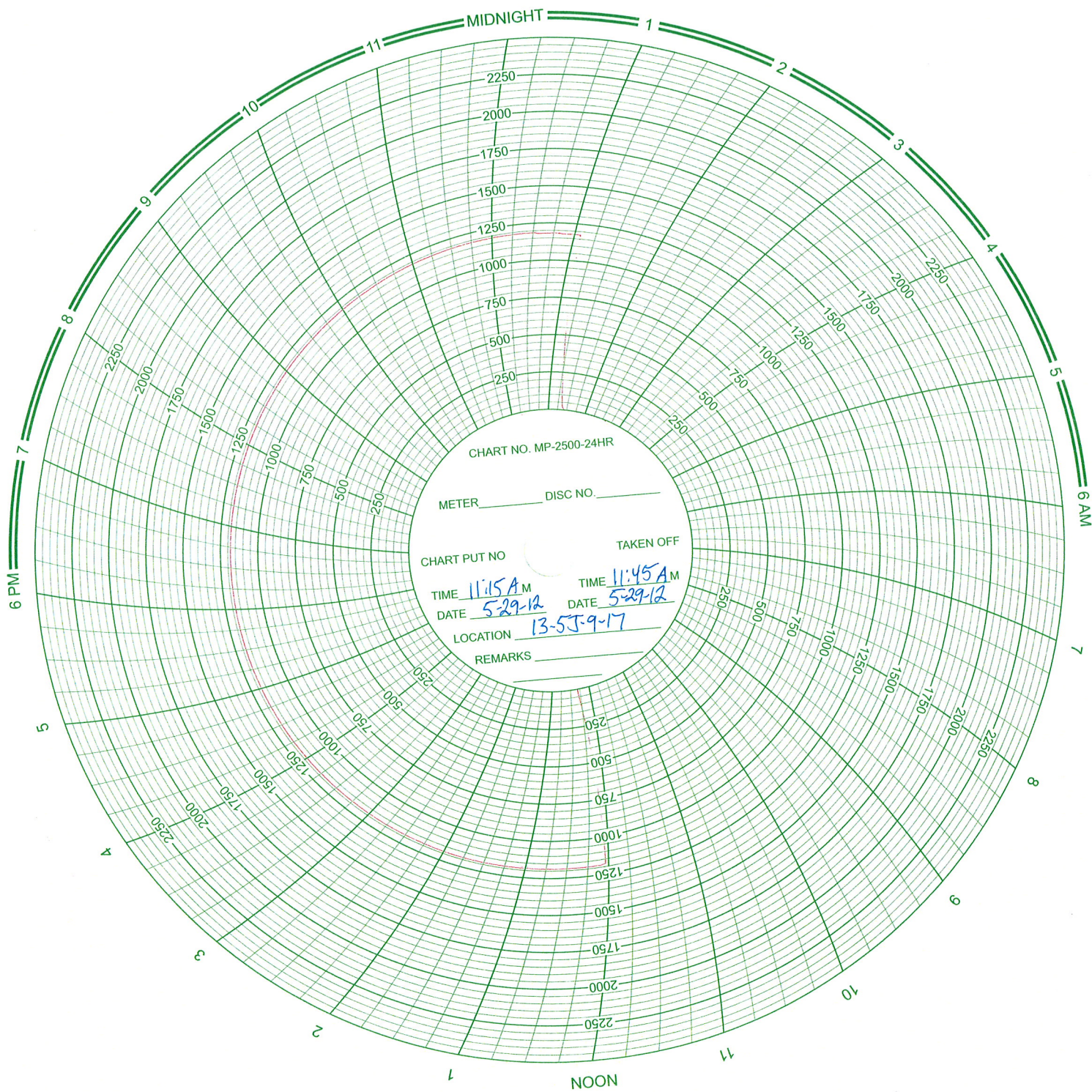
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>1843</u> psig	psig	psig
End of test pressure	<u>1848</u> psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	
0 minutes	<u>1190</u> psig	psig	psig
5 minutes	<u>1190</u> psig	psig	psig
10 minutes	<u>1190</u> psig	psig	psig
15 minutes	<u>1190</u> psig	psig	psig
20 minutes	<u>1190</u> psig	psig	psig
25 minutes	<u>1190</u> psig	psig	psig
30 minutes	<u>1190</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-020252
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well		8. WELL NAME and NUMBER: MON FED 13-5
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013313700000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 0660 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Hyper Scratcher - MIT"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/20/2014			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well had workover procedures performed (hyper scratcher), attached is a daily status report. Workover MIT performed on the above listed well. On 05/20/2014 the csg was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1000 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04208

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 June 02, 2014

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 5/30/2014

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: May 120 12014Test conducted by: Don Trane

Others present: _____

Well Name: <u>Monument Federal</u>	Type: ER SWD	Status: AC TA UC
Field: <u>So. Myton</u>		
Location: <u>13</u> Sec: <u>5</u> T: <u>9</u> N(S) R: <u>17</u> (E) W	County: <u>Duchesne</u>	State: <u>Utah</u>
Operator: <u>Don Trane</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1960</u>	PSIG

Is this a regularly scheduled test?

☐ Yes☒ No

Initial test for permit?

☐ Yes☒ No

Test after well rework?

☒ Yes☐ No

Well injecting during test?

☐ Yes☒ NoIf Yes, rate: NA bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING		PRESSURE		
Initial Pressure	<u>1000</u> psig	psig	psig	psig
End of test pressure	<u>1000</u> psig	psig	psig	psig
CASING / TUBING		ANNULUS PRESSURE		
0 minutes	<u>1281</u> psig	psig	psig	psig
5 minutes	<u>1281</u> psig	psig	psig	psig
10 minutes	<u>1281</u> psig	psig	psig	psig
15 minutes	<u>1280</u> psig	psig	psig	psig
20 minutes	<u>1281</u> psig	psig	psig	psig
25 minutes	<u>1280</u> psig	psig	psig	psig
30 minutes	<u>1280</u> psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
_____ minutes	psig	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

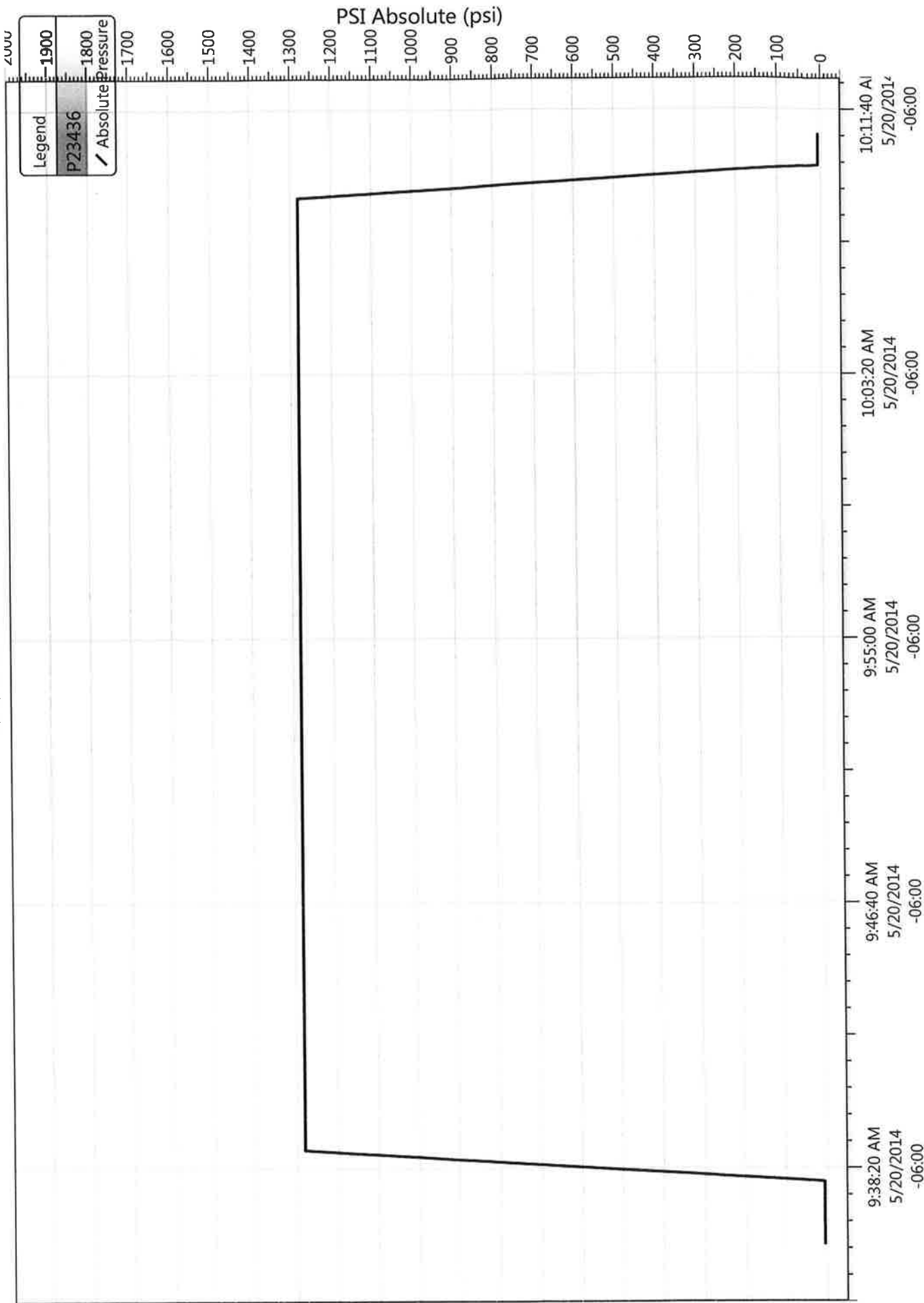
Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____

mon fed 13-5-9-17 mit
5/20/2014 9:35:24 AM



NEWFIELD



Job Detail Summary Report

Well Name: Mon 13-5-9-17

Jobs		Job Start Date	Job End Date
Primary Job Type Scale Removal		5/14/2014	5/20/2014
Daily Operations			
Report Start Date 5/14/2014	Report End Date 5/14/2014	24hr Activity Summary MIRU FLUSH TBG	
Start Time	11:00	End Time	13:00
Start Time	13:00	End Time	15:00
Start Time	15:00	End Time	16:00
Start Time	16:00	End Time	17:00
Start Time	17:00	End Time	18:00
Start Time	18:00	End Time	19:00
Report Start Date 5/15/2014	Report End Date 5/15/2014	24hr Activity Summary POOH TBG, CHECK FOR SCALE	
Start Time	06:00	End Time	07:00
Start Time	07:00	End Time	08:00
Start Time	08:00	End Time	12:00
Start Time	12:00	End Time	14:00
Start Time	14:00	End Time	16:00
Start Time	16:00	End Time	17:00
Report Start Date 5/16/2014	Report End Date 5/16/2014	24hr Activity Summary PU & RIH W/ TBG, LD TBG, MU RIH W/ ASSY	
Start Time	06:00	End Time	07:00
Start Time	07:00	End Time	07:30
Start Time	07:30	End Time	11:00
Start Time	11:00	End Time	15:00
Start Time	15:00	End Time	16:30
Comments			
LEVEL OUT AROUND W.H, SPOT TEE SEAL, SPOT RIG, POST TRIPS, PREP TO R.U, R.U			
CSG WAS OPEN WHEN RIG PULLED ON, BLEED TBG DOWN TO ZUBI TANK, XO TO TBG EQUIP, N.D W.H FLANGE, UNSET PKR, N.U BOP'S, R.U FLOOR, R.U TONGS			
FLUSHED TBG W/ 30 BBL & BIOCID, HELD 500 PSI WHILE PUMPING 1ST 20 BBL, PSI WENT FROM 500 TO 2200 PSI LAST 10 BBL			
POOH W/ 8 JOINTS 2 7/8" J-55 GRADUALLY GETTING THICKER SCALE, 9TH JOINT PULLED HAD 1/8" - 1/4" SCALE ON I.D OF JOINT, RIH W/ 9 JOINTS 2 7/8" J-55 TO MAKE CALLS FOR A DIFFERENT PLAN			
R.U PUMP & LINES, SWI, CLEAN UP FOR THE NIGHT			
TRAVEL TIME			
TRAVEL TIME			
TBG 500 PSI, CSG 500 PSI, BLEED DOWN TO FLAT TANK, RIG MAINTAINANCE, SPOT PIPE TRAILERS			
POOH W/ 143 JOINTS 2 7/8" J-55, CHECKING FOR SCALE W/ STANDING VALVE, SAVED & STOOD BACK 50 JOINTS 2 7/8" J-55, L.D 93 JOINTS 2 7/8" J-55 THAT THE STANDING VALVE WOULDN'T GO THROUGH, TRIED TO FLUSH HALF WAY OUT W/ NO LUCK			
MU & RIH W/ HYPER SCRATCHER, 50 JOINTS 2 7/8" J-55, PREP TALLY & P.U 40 JOINTS 2 7/8" J-55			
CLEAN RIG & EQUIP WHILE WAITING ON RUNNERS, SWIFN			
TRAVEL TIME			
TRAVEL TIME			
TBG 500 PSI, CSG 500 PSI, BLEED DOWN TO ZUBI, RIG MAINTAINANCE			
P.U & RIH W/ 92 JOINTS 2 7/8" J-55, WASHED THROUGH, PERFS @ 4638'-4649', 4789'-4804', 5106'-5110', 5510'- 5516', TAGGED @ 5703', NO FILL			
L.D 34 JOINTS 2 7/8" J-55, POOH W/ 143 JOINTS 2 7/8" J-55, BREAKING & DOPING COLLARS			
MU & RIH W/ 2 3/8" COLLAR, 2 3/8" XN, 2 2/8" 4' PUP, 2 3/8" X 2 7/8" XO, PKR, 2 7/8" S.N, 143 JOINTS 2 7/8" J-55			



Job Detail Summary Report

Well Name: Mon 13-5-9-17

Sundry Number: 51646 API Well Number: 43013313700000

Start Time	16:30	End Time	18:30	Comment
				TBG WAS FULL, DROP Valve, PUMPED 40 BBL, TBG DIDN'T PRESSURE UP, R U & RIH W/ SANDLINE, TAGGED VALVE & PUSHED TO BOTTOM, POOH & HANG BACK SANDLINE, PRESSURED TBG UP & BLEW HOLE @ 2550 PSI
Start Time	18:30	End Time	19:00	Comment
				SWI, CLEAN UP FOR THE NGHT
Start Time	19:00	End Time	20:00	Comment
				TRAVEL TIME
Report Start Date	5/19/2014	Report End Date	5/19/2014	24hr Activity Summary
Start Time	06:00	End Time	07:00	Comment
				TRAVEL TIME
Start Time	07:00	End Time	07:30	Comment
				TBG 100 PSI, CSG 100 PSI, BLED DOWN TO ZUBI, RIG MAINTAINANCE
Start Time	07:30	End Time	09:00	Comment
				POOH W/ 45 JOINTS 2 7/8" J-55, HOLE WAS IN JOINT 45, L.D JOINT, P.U NEW, RIH W/ 44 JOINTS 2 7/8" J-55
Start Time	09:00	End Time	09:30	Comment
				TBG WAS FULL, PUMPED TBG UP TO 3000 PSI, HELD FOR 30 MIN, GOOD TEST
Start Time	09:30	End Time	10:30	Comment
				RIH W/ SANDLINE & OVERSHOT, FISH VALVE, COULDN'T GET VALVE TO UNSEAT, PUMPED 20 BBL DOWN CSG TO PUSH VALVE OFF SEAT, POOH & R.D SANDLINE
Start Time	10:30	End Time	12:30	Comment
				R.D TONGS, R.D FLOOR, N.D BOP'S, N.U INJECTION HEAD, PUMPED 60 BBL PKR FLUID, P.U & SET PKR W/ 15,000 TENSION
Start Time	12:30	End Time	17:00	Comment
				CSG WAS FULL, PUMPED CSG UP TO 1,500 PSI, LOST 50 PSI IN 30 MIN, PUMPED UP TO 1,500 PSI, LOST 25 PSI IN 30 MIN, PUMPED UP TO 1,500 PSI, LOST 15 PSI IN 30 MIN, CLEANED UP RIG & EQUIP WHILE WAITING ON MIT TESTER
Start Time	17:00	End Time	18:00	Comment
				TRAVEL TIME
Report Start Date	5/20/2014	Report End Date	5/20/2014	24hr Activity Summary
Start Time	06:00	End Time	07:00	Comment
				TRAVEL TIME
Start Time	07:00	End Time	09:30	Comment
				CSG HELD @ 1400 PSI OVER NIGHT, RIG REPAIRS WHILE WAITING ON MIT TESTER
Start Time	09:30	End Time	10:00	Comment
				MIT TEST ON CSG, GOOD TEST
Start Time	10:00	End Time	10:30	Comment
				Workover MIT performed on the above listed well. On 05/20/2014 the csg was pressured up to 1280 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1000 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04208
Start Time	10:30	End Time	12:00	Comment
				PREP TO R.D, R.D, PREP RIG TO MOVE, CLEAN UP LOCATION, PRE TRIPS
Start Time	12:00	End Time	12:30	Comment
				MOVE RIG TO 1-34-8-18

NEWFIELD

Schematic



Well Name: Mon 13-5-9-17

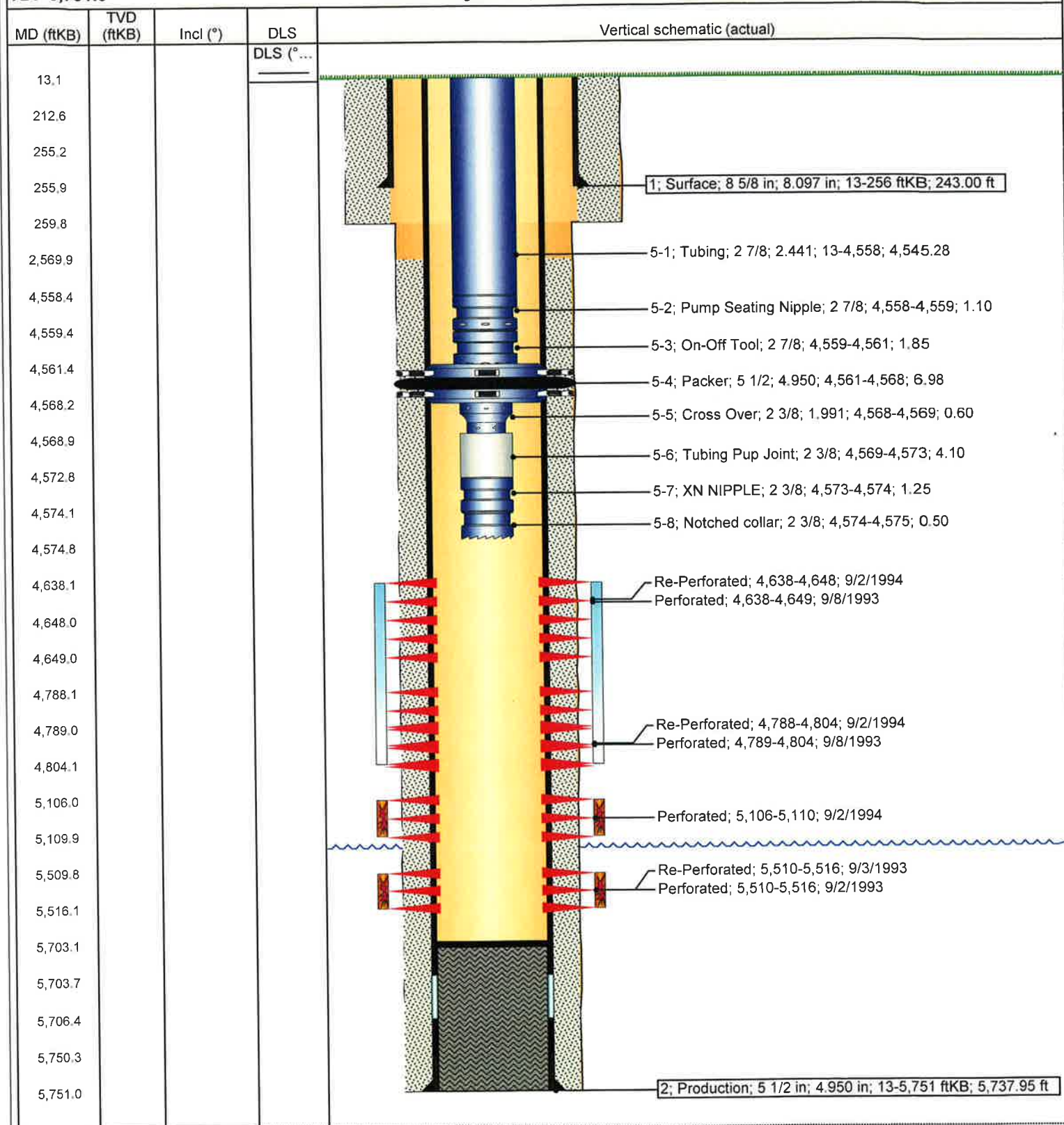
Surface Legal Location 05-9S-17E				API/UWI 43013313700000	Well RC 500151880	Lease	State/Province Utah	Field Name GMBU CTB5	County DUCHESNE
Spud Date 8/10/1993	Rig Release Date 8/31/1993	On Production Date 9/24/1993	Original KB Elevation (ft) 5,236	Ground Elevation (ft) 5,223	Total Depth All (TVD) (ftKB) PBTD (All) (ftKB) Original Hole - 5,703.0				

Most Recent Job

Job Category Production / Workover	Primary Job Type Scale Removal	Secondary Job Type N/A	Job Start Date 5/14/2014	Job End Date 5/20/2014
---------------------------------------	-----------------------------------	---------------------------	-----------------------------	---------------------------

TD: 5,751.0

Vertical - Original Hole, 5/30/2014 7:40:34 AM



NEWFIELD

Newfield Wellbore Diagram Data

Mon 13-5-9-17



Surface Legal Location 05-9S-17E		API/UWI 43013313700000		Lease	
County DUCHESENE	State/Province Utah	Basin		Field Name GMBU CTB5	
Well Start Date 8/10/1993	Spud Date 8/10/1993	Final Rig Release Date 8/31/1993		On Production Date 9/24/1993	
Original KB Elevation (ft) 5,236	Ground Elevation (ft) 5,223	Total Depth (ftKB) 5,751.0		PBD (All) (ftKB) Original Hole - 5,703.0	

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	8/11/1993	8 5/8	8.097	24.00	J-55	256
Production	8/31/1993	5 1/2	4.950	15.50	K-55	5,751

Cement

String: Surface, 256ftKB 8/11/1993

Cementing Company Western Co.	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 260.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description w/ 2% CCL to 1/4# per sx cello flake	Fluid Type Lead	Amount (sacks) 150	Class G	Estimated Top (ftKB) 13.0

String: Production, 5,751ftKB 8/31/1993

Cementing Company Dowell Schlumberger	Top Depth (ftKB) 2,570.0	Bottom Depth (ftKB) 5,751.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description	Fluid Type Lead	Amount (sacks) 166	Class Hilift	Estimated Top (ftKB) 2,570.0
Fluid Description	Fluid Type Tail	Amount (sacks) 258	Class G	Estimated Top (ftKB) 4,000.0

Tubing Strings

Tubing Description					Run Date	Set Depth (ftKB)		
Tubing					5/20/2014	4,574.7		
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)
Tubing	142	2 7/8	2.441	6.50	J-55	4,545.28	13.0	4,558.3
Pump Seating Nipple		2 7/8				1.10	4,558.3	4,559.4
On-Off Tool		2 7/8				1.85	4,559.4	4,561.2
Packer		5 1/2	4.950			6.98	4,561.2	4,568.2
Cross Over		2 3/8	1.991			0.60	4,568.2	4,568.8
Tubing Pup Joint		2 3/8				4.10	4,568.8	4,572.9
XN NIPPLE		2 3/8				1.25	4,572.9	4,574.2
Notched collar		2 3/8				0.50	4,574.2	4,574.7

Rod Strings

Rod Description				Run Date		Set Depth (ftKB)	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Blm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Blm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Nom Hole Dia (in)	Date
2	Red 1, Original Hole	4,638	4,649				9/8/1993
4	Red 1, Original Hole	4,638	4,648	4	90		9/2/1994
4	Red 5, Original Hole	4,788	4,804	4	90		9/2/1994
2	Red 5, Original Hole	4,789	4,804				9/8/1993
3	Green 4, Original Hole	5,106	5,110	4	90		9/2/1994
1	Blue 1, Original Hole	5,510	5,516	2	180		9/2/1993
1	Blue 1, Original Hole	5,510	5,516	2	180		9/3/1993

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	1,750		20.2	2,410			
2	2,500		32.8	3,040			
3	3,040		17.0	4,900			
4	2,650						

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 15000 lb
2		Proppant White Sand 56700 lb
3		Proppant Mesh Sand 15100 lb
4		